1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 1
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Table of Contents
ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ

Part I: Mixture Sums and Single Radionuclide Guidelines
õõõ

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 2
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Dose Conversion Factor (and Related) Parameter Summary
Current Library: FGR 12
Default Library: FGR 12

0 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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page   3
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffffff
 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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page   4
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffffff
 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
```

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)

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 5
Parent Dose Report
Title : Industrial No Cap Hydro

File : INDUSTRIAL NO CAP HYDRO.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)
Current Library: ICRP 72 (Adult)
Default Library: ICRP 72 (Adult)

0 Menu	Parameter	Current Value	Default	Parameter Name
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)

	≥	≥	≥	
DCSF	≥ Dose conversion factors for ingestion, mrem/pCi:	≥	≥	≥
DCSF	≥ Ac-227+D	≥ 4.473E-03	≥ 4.473E-03	≥ DCF3(1)
DCSF	≥ Al-26	≥ 1.295E-05	≥ 1.295E-05	≥ DCF3(2)
DCSF	≥ Am-241	≥ 7.400E-04	≥ 7.400E-04	≥ DCF3(3)
DCSF	≥ Am-243+D	≥ 7.430E-04	≥ 7.430E-04	≥ DCF3(4)
DCSF	≥ Cf-249	≥ 1.295E-03	≥ 1.295E-03	≥ DCF3(5)
DCSF	≥ Cf-251	≥ 1.332E-03	≥ 1.332E-03	≥ DCF3(8)
DCSF	≥ Cf-252	≥ 3.330E-04	≥ 3.330E-04	≥ DCF3(9)
DCSF	≥ Cl-36	≥ 3.441E-06	≥ 3.441E-06	≥ DCF3(14)
DCSF	≥ Cm-245	≥ 7.770E-04	≥ 7.770E-04	≥ DCF3(15)
DCSF	≥ Cm-247+D	≥ 7.033E-04	≥ 7.033E-04	≥ DCF3(17)
DCSF	≥ Cm-248	≥ 2.849E-03	≥ 2.849E-03	≥ DCF3(18)
DCSF	≥ Co-60	≥ 1.258E-05	≥ 1.258E-05	≥ DCF3(22)
DCSF	≥ Cs-134	≥ 7.030E-05	≥ 7.030E-05	≥ DCF3(23)
DCSF	≥ Cs-137+D	≥ 4.810E-05	≥ 4.810E-05	≥ DCF3(24)
DCSF	≥ Eu-154	≥ 7.400E-06	≥ 7.400E-06	≥ DCF3(25)
DCSF	≥ Eu-155	≥ 1.184E-06	≥ 1.184E-06	≥ DCF3(26)
DCSF	≥ H-3	≥ 1.554E-07	≥ 1.554E-07	≥ DCF3(27)
DCSF	≥ Ho-166m	≥ 7.400E-06	≥ 7.400E-06	≥ DCF3(28)

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 6

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)
Current Library: ICRP 72 (Adult)
Default Library: ICRP 72 (Adult)

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

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

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 7
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)
Current Library: RESRAD Default Transfer factors
Default Library: RESRAD Default Transfer factors

0 Menu	Parameter	Current Value	Default	Parameter Name
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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page   8
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
```

```
ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒ
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)
```

```
 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   ≥                                                            ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page   9
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈ffffffffffffff
 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   ≥                                                            ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  10
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffffff
 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   ≥                                                              ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  11
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

                    Dose Conversion Factor (and Related) Parameter Summary (continued)
                            Current Library: RESRAD Default Transfer factors
```

Default Library: RESRAD Default Transfer factors

0 Menu	Parameter			Current Value	Default	Parameter Name
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   ≥                                                        ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  12
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒ
 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   ≥ 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   ≥                                                             ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  13
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈fffffffffffff
 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   ≥                                                           ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  14
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF
```

Dose Conversion Factor (and Related) Parameter Summary (continued)
Current Library: RESRAD Default Transfer factors
Default Library: RESRAD Default Transfer factors

0 Menu	Parameter	Current Value	Default	Parameter 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   ≥                                                           ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days        09/19/2012  14:58  Page  15
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffffff≈ffffffffffff≈ffffffffffffff
 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   ≥                                                             ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  16
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈ffffffffffffff
 TF   ≥ U-235+D  , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)    ≥ 3.400E-04 ≥ 3.400E-04 ≥ I_M(65,1)
 TF   ≥ U-235+D  , milk/livestock-intake ratio, (pCi/L)/(pCi/d)     ≥ 6.000E-04 ≥ 6.000E-04 ≥ I_M(65,2)
 TF   ≥                                                             ≥           ≥           ≥
 TF   ≥ U-236    , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)    ≥ 3.400E-04 ≥ 3.400E-04 ≥ I_M(66,1)
 TF   ≥ U-236    , milk/livestock-intake ratio, (pCi/L)/(pCi/d)     ≥ 6.000E-04 ≥ 6.000E-04 ≥ I_M(66,2)
 TF   ≥                                                             ≥           ≥           ≥
 TF   ≥ U-238    , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)    ≥ 3.400E-04 ≥ 3.400E-04 ≥ I_M(67,1)
 TF   ≥ U-238    , milk/livestock-intake ratio, (pCi/L)/(pCi/d)     ≥ 6.000E-04 ≥ 6.000E-04 ≥ I_M(67,2)
 TF   ≥                                                             ≥           ≥           ≥
 TF   ≥ U-238+D  , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)    ≥ 3.400E-04 ≥ 3.400E-04 ≥ I_M(68,1)
 TF   ≥ U-238+D  , milk/livestock-intake ratio, (pCi/L)/(pCi/d)     ≥ 6.000E-04 ≥ 6.000E-04 ≥ I_M(68,2)
      ≥                                                             ≥           ≥           ≥
 TF   ≥ Bioaccumulation factors, fresh water, L/kg:                 ≥           ≥           ≥
```

```
 TF   ≥ Ac-227+D , fish                                  ≥ 1.500E+01 ≥ 1.500E+01 ≥ BIOFA(1,1)
 TF   ≥ Ac-227+D , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(1,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Al-26    , fish                                  ≥ 5.000E+02 ≥ 5.000E+02 ≥ BIOFA(2,1)
 TF   ≥ Al-26    , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(2,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Am-241   , fish                                  ≥ 3.000E+01 ≥ 3.000E+01 ≥ BIOFA(3,1)
 TF   ≥ Am-241   , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(3,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Am-243+D , fish                                  ≥ 3.000E+01 ≥ 3.000E+01 ≥ BIOFA(4,1)
 TF   ≥ Am-243+D , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(4,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cf-249   , fish                                  ≥ 2.500E+01 ≥ 2.500E+01 ≥ BIOFA(5,1)
 TF   ≥ Cf-249   , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(5,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cf-251   , fish                                  ≥ 2.500E+01 ≥ 2.500E+01 ≥ BIOFA(8,1)
 TF   ≥ Cf-251   , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(8,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cf-252   , fish                                  ≥ 2.500E+01 ≥ 2.500E+01 ≥ BIOFA(9,1)
 TF   ≥ Cf-252   , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(9,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cl-36    , fish                                  ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(14,1)
 TF   ≥ Cl-36    , crustacea and mollusks                ≥ 1.900E+02 ≥ 1.900E+02 ≥ BIOFA(14,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cm-245   , fish                                  ≥ 3.000E+01 ≥ 3.000E+01 ≥ BIOFA(15,1)
 TF   ≥ Cm-245   , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(15,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cm-247+D , fish                                  ≥ 3.000E+01 ≥ 3.000E+01 ≥ BIOFA(17,1)
 TF   ≥ Cm-247+D , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(17,2)
 TF   ≥                                                  ≥           ≥           ≥
 TF   ≥ Cm-248   , fish                                  ≥ 3.000E+01 ≥ 3.000E+01 ≥ BIOFA(18,1)
 TF   ≥ Cm-248   , crustacea and mollusks                ≥ 1.000E+03 ≥ 1.000E+03 ≥ BIOFA(18,2)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days        09/19/2012  14:58  Page  17
```

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)
Current Library: RESRAD Default Transfer factors
Default Library: RESRAD Default Transfer factors

0 Menu	Parameter	Current Value	Default	Parameter Name
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   ≥                                                    ≥           ≥           ≥
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  18
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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≈fffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffffff
```

```
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					

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Dose Conversion Factor (and Related) Parameter Summary (continued)
Current Library: RESRAD Default Transfer factors
Default Library: RESRAD Default Transfer factors

0 Menu		Parameter	Current Value	Default	Parameter Name
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)

```
 TF   ≥ Th-230   , crustacea and mollusks                    ≥ 5.000E+02 ≥ 5.000E+02 ≥ BIOFA(61,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ Th-232   , fish                                      ≥ 1.000E+02 ≥ 1.000E+02 ≥ BIOFA(62,1)
 TF   ≥ Th-232   , crustacea and mollusks                    ≥ 5.000E+02 ≥ 5.000E+02 ≥ BIOFA(62,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ U-233    , fish                                      ≥ 1.000E+01 ≥ 1.000E+01 ≥ BIOFA(63,1)
 TF   ≥ U-233    , crustacea and mollusks                    ≥ 6.000E+01 ≥ 6.000E+01 ≥ BIOFA(63,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ U-234    , fish                                      ≥ 1.000E+01 ≥ 1.000E+01 ≥ BIOFA(64,1)
 TF   ≥ U-234    , crustacea and mollusks                    ≥ 6.000E+01 ≥ 6.000E+01 ≥ BIOFA(64,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ U-235+D  , fish                                      ≥ 1.000E+01 ≥ 1.000E+01 ≥ BIOFA(65,1)
 TF   ≥ U-235+D  , crustacea and mollusks                    ≥ 6.000E+01 ≥ 6.000E+01 ≥ BIOFA(65,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ U-236    , fish                                      ≥ 1.000E+01 ≥ 1.000E+01 ≥ BIOFA(66,1)
 TF   ≥ U-236    , crustacea and mollusks                    ≥ 6.000E+01 ≥ 6.000E+01 ≥ BIOFA(66,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ U-238    , fish                                      ≥ 1.000E+01 ≥ 1.000E+01 ≥ BIOFA(67,1)
 TF   ≥ U-238    , crustacea and mollusks                    ≥ 6.000E+01 ≥ 6.000E+01 ≥ BIOFA(67,2)
 TF   ≥                                                      ≥           ≥           ≥
 TF   ≥ U-238+D  , fish                                      ≥ 1.000E+01 ≥ 1.000E+01 ≥ BIOFA(68,1)
 TF   ≥ U-238+D  , crustacea and mollusks                    ≥ 6.000E+01 ≥ 6.000E+01 ≥ BIOFA(68,2)
 ÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕÕ
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  20
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

                                                 Site-Specific Parameter Summary
0     ≥                                                ≥   User    ≥           ≥  RESRAD   ≥
Parameter
 Menu ≥                      Parameter                  ≥   Input   ≥  Default  ≥ computed  ≥      Name
```

```
fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈ffffffffffff
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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  21
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  22
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈ffffffffffff
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 ≥ 2.947E-06 ≥ ALEACH(1)
 DCLR ≥   Solubility constant                           ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(1)
      ≥                                                 ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Al-26             ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                   ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥ DCNUCC(2)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                  ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCU(2,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                  ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCU(2,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                  ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCU(2,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                  ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DCNUCU(2,4)
 DCLR ≥   Saturated zone (cm**3/g)                      ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ DCNUCS(2)
 DCLR ≥   Sediment in surface water body (cm**3/g)      ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCSWB(2)
 DCLR ≥   Agricultural area  1 (cm**3/g)                ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCOF(2,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCOF(2,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCOF(2,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCOF(2,4)
```

```
 DCLR ≥   Offsite Dwelling (cm**3/g)                          ≥ 1.300E+02 ≥ 0.000E+00 ≥    ---    ≥
DCNUCDWE(2)
 DCLR ≥   Leach rate (/yr)                                    ≥ 0.000E+00 ≥ 0.000E+00 ≥ 2.947E-06 ≥ ALEACH(2)
 DCLR ≥   Solubility constant                                 ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(2)
      ≥                                                       ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Am-241                  ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                         ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥ DCNUCC(3)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                        ≥ 2.400E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(3,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                        ≥ 2.400E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(3,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                        ≥ 2.400E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(3,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                        ≥ 0.000E+00 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(3,4)
 DCLR ≥   Saturated zone (cm**3/g)                            ≥ 0.000E+00 ≥ 2.000E+01 ≥    ---    ≥ DCNUCS(3)
 DCLR ≥   Sediment in surface water body (cm**3/g)            ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCSWB(3)
 DCLR ≥   Agricultural area  1 (cm**3/g)                      ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(3,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                      ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(3,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                      ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(3,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                      ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(3,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                          ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCDWE(3)
 DCLR ≥   Leach rate (/yr)                                    ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.825E-07 ≥ ALEACH(3)
 DCLR ≥   Solubility constant                                 ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(3)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  23
 Parent Dose Report
 Title : Industrial No Cap Hydro
```

File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 Menu	Parameter	User Input	Default	RESRAD computed	Parameter 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	2.947E-06	ALEACH(5)

```
 DCLR ≥   Solubility constant                          ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(5)
      ≥                                                ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Cf-251           ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                  ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥ DCNUCC(8)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(8,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(8,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(8,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                 ≥ 0.000E+00 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(8,4)
 DCLR ≥   Saturated zone (cm**3/g)                     ≥ 0.000E+00 ≥ 1.380E+03 ≥    ---    ≥ DCNUCS(8)
 DCLR ≥   Sediment in surface water body (cm**3/g)     ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCSWB(8)
 DCLR ≥   Agricultural area  1 (cm**3/g)               ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(8,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)               ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(8,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)               ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(8,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)               ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(8,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                   ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCDWE(8)
 DCLR ≥   Leach rate (/yr)                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ 2.947E-06 ≥ ALEACH(8)
 DCLR ≥   Solubility constant                          ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(8)
      ≥                                                ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Cf-252           ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                  ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥ DCNUCC(9)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(9,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
```

```
DCNUCU(9,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                   ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(9,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                   ≥ 0.000E+00 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(9,4)
 DCLR ≥   Saturated zone (cm**3/g)                       ≥ 0.000E+00 ≥ 1.380E+03 ≥    ---    ≥ DCNUCS(9)
 DCLR ≥   Sediment in surface water body (cm**3/g)       ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCSWB(9)
 DCLR ≥   Agricultural area  1 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(9,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(9,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(9,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                 ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(9,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                     ≥ 1.300E+02 ≥ 1.380E+03 ≥    ---    ≥
DCNUCDWE(9)
 DCLR ≥   Leach rate (/yr)                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ 2.947E-06 ≥ ALEACH(9)
 DCLR ≥   Solubility constant                            ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(9)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  24
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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 ≥ 7.266E-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 ≥ 7.623E-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 ≥ 2.546E-05 ≥ ALEACH(23)
 DCLR ≥   Solubility constant                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(23)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  25
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffff≈fffffffffff
fffff
 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)          ≥ 1.500E+01 ≥ 4.600E+03 ≥    ---    ≥
DCNUCSWB(24)
 DCLR ≥   Agricultural area  1 (cm**3/g)                    ≥ 1.500E+01 ≥ 4.600E+03 ≥    ---    ≥
DCNUCOF(24,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                    ≥ 1.500E+01 ≥ 4.600E+03 ≥    ---    ≥
DCNUCOF(24,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                    ≥ 1.500E+01 ≥ 4.600E+03 ≥    ---    ≥
DCNUCOF(24,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                    ≥ 1.500E+01 ≥ 4.600E+03 ≥    ---    ≥
DCNUCOF(24,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                        ≥ 1.500E+01 ≥ 4.600E+03 ≥    ---    ≥
DCNUCDWE(24)
 DCLR ≥   Leach rate (/yr)                                  ≥ 0.000E+00 ≥ 0.000E+00 ≥ 2.546E-05 ≥ 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)                      ≥ 5.000E+01 ≥ 8.250E+02 ≥    ---    ≥
DCNUCU(25,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                      ≥ 5.000E+01 ≥ 8.250E+02 ≥    ---    ≥
DCNUCU(25,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                      ≥ 5.000E+01 ≥ 8.250E+02 ≥    ---    ≥
DCNUCU(25,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                      ≥ 0.000E+00 ≥ 8.250E+02 ≥    ---    ≥
DCNUCU(25,4)
 DCLR ≥   Saturated zone (cm**3/g)                          ≥ 0.000E+00 ≥ 8.250E+02 ≥    ---    ≥ DCNUCS(25)
 DCLR ≥   Sediment in surface water body (cm**3/g)          ≥ 5.000E+01 ≥ 8.250E+02 ≥    ---    ≥
DCNUCSWB(25)
 DCLR ≥   Agricultural area  1 (cm**3/g)                    ≥ 5.000E+01 ≥ 8.250E+02 ≥    ---    ≥
DCNUCOF(25,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                    ≥ 5.000E+01 ≥ 8.250E+02 ≥    ---    ≥
DCNUCOF(25,2)
 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 ≥ 7.657E-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 ≥ 7.657E-06 ≥ ALEACH(26)
 DCLR ≥   Solubility constant                          ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(26)
```

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 26
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
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 ≥ 7.266E-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 ≥ 1.533E-06 ≥ ALEACH(28)
 DCLR ≥   Solubility constant                           ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(28)
      ≥                                                 ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Na-22             ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                   ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥ DCNUCC(29)
```

```
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                    ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCU(29,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                    ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCU(29,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                    ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCU(29,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                    ≥ 0.000E+00 ≥ 1.000E+01 ≥    ---    ≥
DCNUCU(29,4)
 DCLR ≥   Saturated zone (cm**3/g)                        ≥ 0.000E+00 ≥ 1.000E+01 ≥    ---    ≥ DCNUCS(29)
 DCLR ≥   Sediment in surface water body (cm**3/g)        ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCSWB(29)
 DCLR ≥   Agricultural area  1 (cm**3/g)                  ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCOF(29,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                  ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCOF(29,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                  ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCOF(29,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                  ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCOF(29,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                      ≥ 1.000E+01 ≥ 1.000E+01 ≥    ---    ≥
DCNUCDWE(29)
 DCLR ≥   Leach rate (/yr)                                ≥ 0.000E+00 ≥ 0.000E+00 ≥ 3.812E-05 ≥ ALEACH(29)
 DCLR ≥   Solubility constant                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(29)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  27
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

```
fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈ffffffffffff
fffff
 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 ≥ 5.074E-05 ≥ ALEACH(30)
 DCLR ≥   Solubility constant                                 ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUBO(30)
      ≥                                                       ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Pb-210                  ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                         ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥ DCNUCC(32)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                        ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCU(32,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                        ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
```

```
DCNUCU(32,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                    ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCU(32,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                    ≥ 0.000E+00 ≥ 1.000E+02 ≥    ---    ≥
DCNUCU(32,4)
 DCLR ≥   Saturated zone (cm**3/g)                        ≥ 0.000E+00 ≥ 1.000E+02 ≥    ---    ≥ DCNUCS(32)
 DCLR ≥   Sediment in surface water body (cm**3/g)        ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCSWB(32)
 DCLR ≥   Agricultural area  1 (cm**3/g)                  ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCOF(32,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                  ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCOF(32,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                  ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCOF(32,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                  ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCOF(32,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                      ≥ 2.500E+01 ≥ 1.000E+02 ≥    ---    ≥
DCNUCDWE(32)
 DCLR ≥   Leach rate (/yr)                                ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.530E-05 ≥ 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 ≥ 7.657E-06 ≥ ALEACH(33)
 DCLR ≥   Solubility constant                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(33)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  28
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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 ≥ 5.397E-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)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(37,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(37,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(37,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                    ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCDWE(37)
 DCLR ≥   Leach rate (/yr)                              ≥ 0.000E+00 ≥ 0.000E+00 ≥ 5.397E-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)                  ≥ 4.100E+00 ≥ 2.000E+03 ≥    ---    ≥
DCNUCU(38,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                  ≥ 4.100E+00 ≥ 2.000E+03 ≥    ---    ≥
DCNUCU(38,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                  ≥ 4.100E+00 ≥ 2.000E+03 ≥    ---    ≥
DCNUCU(38,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                  ≥ 0.000E+00 ≥ 2.000E+03 ≥    ---    ≥
DCNUCU(38,4)
 DCLR ≥   Saturated zone (cm**3/g)                      ≥ 0.000E+00 ≥ 2.000E+03 ≥    ---    ≥ DCNUCS(38)
 DCLR ≥   Sediment in surface water body (cm**3/g)      ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCSWB(38)
 DCLR ≥   Agricultural area  1 (cm**3/g)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(38,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(38,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(38,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
DCNUCOF(38,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                    ≥ 7.100E+02 ≥ 2.000E+03 ≥    ---    ≥
```

DCNUCDWE(38)
 DCLR ≥ Leach rate (/yr) ≥ 0.000E+00 ≥ 0.000E+00 ≥ 5.397E-07 ≥ ALEACH(38)
 DCLR ≥ Solubility constant ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used ≥ SOLUB0(38)
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 29
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 Parameter Menu	Parameter	User Input	Default	RESRAD computed	Name
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	≥ 5.397E-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	≥ 5.397E-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 ≥ 3.832E-07 ≥ ALEACH(48)
 DCLR ≥   Solubility constant                           ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(48)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  30
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

                                          Site-Specific Parameter Summary (continued)
0     ≥                                                ≥   User    ≥           ≥  RESRAD   ≥
```

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffff≈fffffffffff
fffff
 DCLR ≥ Distribution coefficients for Ra-228                    ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                           ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥ DCNUCC(49)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                          ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCU(49,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                          ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCU(49,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                          ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCU(49,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                          ≥ 0.000E+00 ≥ 7.000E+01 ≥    ---    ≥
DCNUCU(49,4)
 DCLR ≥   Saturated zone (cm**3/g)                              ≥ 0.000E+00 ≥ 7.000E+01 ≥    ---    ≥ DCNUCS(49)
 DCLR ≥   Sediment in surface water body (cm**3/g)              ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCSWB(49)
 DCLR ≥   Agricultural area  1 (cm**3/g)                        ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCOF(49,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                        ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCOF(49,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                        ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCOF(49,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                        ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCOF(49,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                            ≥ 1.000E+03 ≥ 7.000E+01 ≥    ---    ≥
DCNUCDWE(49)
 DCLR ≥   Leach rate (/yr)                                      ≥ 0.000E+00 ≥ 0.000E+00 ≥ 3.832E-07 ≥ 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 ≥ 7.266E-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 ≥ 7.266E-03 ≥ ALEACH(51)
 DCLR ≥   Solubility constant                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(51)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  31
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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 ≥ 7.657E-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 ≥ 7.657E-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 ≥ 7.657E-06 ≥ ALEACH(56)
 DCLR ≥   Solubility constant                                 ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(56)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  32
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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)                ≥ 7.000E+01 ≥ 3.000E+01 ≥    ---    ≥
DCNUCOF(57,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                ≥ 7.000E+01 ≥ 3.000E+01 ≥    ---    ≥
DCNUCOF(57,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                ≥ 7.000E+01 ≥ 3.000E+01 ≥    ---    ≥
DCNUCOF(57,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                    ≥ 7.000E+01 ≥ 3.000E+01 ≥    ---    ≥
DCNUCDWE(57)
 DCLR ≥   Leach rate (/yr)                              ≥ 0.000E+00 ≥ 0.000E+00 ≥ 5.471E-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)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(59,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(59,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(59,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                  ≥ 0.000E+00 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(59,4)
 DCLR ≥   Saturated zone (cm**3/g)                      ≥ 0.000E+00 ≥ 6.000E+04 ≥    ---    ≥ DCNUCS(59)
 DCLR ≥   Sediment in surface water body (cm**3/g)      ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCSWB(59)
 DCLR ≥   Agricultural area  1 (cm**3/g)                ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(59,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(59,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(59,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(59,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                    ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
```

```
DCNUCDWE(59)
 DCLR ≥   Leach rate (/yr)                                ≥ 0.000E+00 ≥ 0.000E+00 ≥ 3.832E-08 ≥ ALEACH(59)
 DCLR ≥   Solubility constant                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(59)
      ≥                                                   ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for Th-230              ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                     ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥ DCNUCC(61)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                    ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(61,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                    ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(61,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                    ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(61,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                    ≥ 0.000E+00 ≥ 6.000E+04 ≥    ---    ≥
DCNUCU(61,4)
 DCLR ≥   Saturated zone (cm**3/g)                        ≥ 0.000E+00 ≥ 6.000E+04 ≥    ---    ≥ DCNUCS(61)
 DCLR ≥   Sediment in surface water body (cm**3/g)        ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCSWB(61)
 DCLR ≥   Agricultural area  1 (cm**3/g)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(61,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(61,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(61,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                  ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCOF(61,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                      ≥ 1.000E+04 ≥ 6.000E+04 ≥    ---    ≥
DCNUCDWE(61)
 DCLR ≥   Leach rate (/yr)                                ≥ 0.000E+00 ≥ 0.000E+00 ≥ 3.832E-08 ≥ ALEACH(61)
 DCLR ≥   Solubility constant                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(61)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  33
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF
```

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
DCLR	Distribution coefficients for Th-232				
DCLR	Contaminated zone (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCC(62)
DCLR	Unsaturated zone 1 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCU(62,1)
DCLR	Unsaturated zone 2 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCU(62,2)
DCLR	Unsaturated zone 3 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCU(62,3)
DCLR	Unsaturated zone 4 (cm**3/g)	0.000E+00	6.000E+04	---	DCNUCU(62,4)
DCLR	Saturated zone (cm**3/g)	0.000E+00	6.000E+04	---	DCNUCS(62)
DCLR	Sediment in surface water body (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCSWB(62)
DCLR	Agricultural area 1 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(62,1)
DCLR	Agricultural area 2 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(62,2)
DCLR	Agricultural area 3 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(62,3)
DCLR	Agricultural area 4 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(62,4)
DCLR	Offsite Dwelling (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCDWE(62)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.832E-08	ALEACH(62)
DCLR	Solubility constant	0.000E+00	0.000E+00	not used	SOLUB0(62)

```
      ≥                                                  ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for U-233              ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                    ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCC(63)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                   ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(63,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                   ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(63,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                   ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(63,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                   ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(63,4)
 DCLR ≥   Saturated zone (cm**3/g)                       ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCS(63)
 DCLR ≥   Sediment in surface water body (cm**3/g)       ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCSWB(63)
 DCLR ≥   Agricultural area  1 (cm**3/g)                 ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(63,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                 ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(63,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                 ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(63,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                 ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(63,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                     ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCDWE(63)
 DCLR ≥   Leach rate (/yr)                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.445E-04 ≥ 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 ≥ 1.445E-04 ≥ ALEACH(64)
 DCLR ≥   Solubility constant                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(64)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  34
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 DCLR ≥ Distribution coefficients for U-235                 ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                       ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCC(65)
```

```
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                    ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(65,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                    ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(65,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                    ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(65,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                    ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(65,4)
 DCLR ≥   Saturated zone (cm**3/g)                        ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCS(65)
 DCLR ≥   Sediment in surface water body (cm**3/g)        ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCSWB(65)
 DCLR ≥   Agricultural area  1 (cm**3/g)                  ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(65,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                  ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(65,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                  ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(65,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                  ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(65,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                      ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCDWE(65)
 DCLR ≥   Leach rate (/yr)                                ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.445E-04 ≥ ALEACH(65)
 DCLR ≥   Solubility constant                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(65)
      ≥                                                   ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for U-236               ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                     ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCC(66)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                    ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(66,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                    ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(66,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                    ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(66,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                    ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥
```

```
DCNUCU(66,4)
 DCLR ≥   Saturated zone (cm**3/g)                    ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCS(66)
 DCLR ≥   Sediment in surface water body (cm**3/g)    ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCSWB(66)
 DCLR ≥   Agricultural area  1 (cm**3/g)              ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(66,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)              ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(66,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)              ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(66,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)              ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(66,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                  ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCDWE(66)
 DCLR ≥   Leach rate (/yr)                            ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.445E-04 ≥ ALEACH(66)
 DCLR ≥   Solubility constant                         ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(66)
      ≥                                               ≥           ≥           ≥           ≥
 DCLR ≥ Distribution coefficients for U-238           ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                 ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCC(67)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(67,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(67,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                ≥ 2.400E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(67,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCU(67,4)
 DCLR ≥   Saturated zone (cm**3/g)                    ≥ 0.000E+00 ≥ 5.000E+01 ≥    ---    ≥ DCNUCS(67)
 DCLR ≥   Sediment in surface water body (cm**3/g)    ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCSWB(67)
 DCLR ≥   Agricultural area  1 (cm**3/g)              ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(67,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)              ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
```

```
DCNUCOF(67,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                    ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(67,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                    ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCOF(67,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                        ≥ 2.600E+00 ≥ 5.000E+01 ≥    ---    ≥
DCNUCDWE(67)
 DCLR ≥   Leach rate (/yr)                                  ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.445E-04 ≥ ALEACH(67)
 DCLR ≥   Solubility constant                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(67)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  35
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 DCLR ≥ Distribution coefficients for progeny Am-243        ≥           ≥           ≥           ≥
 DCLR ≥   Contaminated zone (cm**3/g)                       ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥ DCNUCC(4)
 DCLR ≥   Unsaturated zone 1 (cm**3/g)                      ≥ 2.400E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(4,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                      ≥ 2.400E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(4,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                      ≥ 2.400E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(4,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                      ≥ 0.000E+00 ≥ 2.000E+01 ≥    ---    ≥
DCNUCU(4,4)
 DCLR ≥   Saturated zone (cm**3/g)                          ≥ 0.000E+00 ≥ 2.000E+01 ≥    ---    ≥ DCNUCS(4)
 DCLR ≥   Sediment in surface water body (cm**3/g)          ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
```

```
DCNUCSWB(4)
 DCLR ≥   Agricultural area  1 (cm**3/g)                ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(4,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(4,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(4,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCOF(4,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                    ≥ 2.100E+03 ≥ 2.000E+01 ≥    ---    ≥
DCNUCDWE(4)
 DCLR ≥   Leach rate (/yr)                              ≥ 0.000E+00 ≥ 0.000E+00 ≥ 1.825E-07 ≥ 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 ≥ 7.657E-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 ≥ 7.657E-06 ≥ ALEACH(16)
 DCLR ≥   Solubility constant                            ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(16)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  36
```

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
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 ≥ 7.657E-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 ≥ 7.657E-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 ≥    ---    ≥
```

```
DCNUCU(19,1)
 DCLR ≥   Unsaturated zone 2 (cm**3/g)                      ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(19,2)
 DCLR ≥   Unsaturated zone 3 (cm**3/g)                      ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(19,3)
 DCLR ≥   Unsaturated zone 4 (cm**3/g)                      ≥ 0.000E+00 ≥ 1.380E+03 ≥    ---    ≥
DCNUCU(19,4)
 DCLR ≥   Saturated zone (cm**3/g)                          ≥ 0.000E+00 ≥ 1.380E+03 ≥    ---    ≥ DCNUCS(19)
 DCLR ≥   Sediment in surface water body (cm**3/g)          ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCSWB(19)
 DCLR ≥   Agricultural area  1 (cm**3/g)                    ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(19,1)
 DCLR ≥   Agricultural area  2 (cm**3/g)                    ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(19,2)
 DCLR ≥   Agricultural area  3 (cm**3/g)                    ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(19,3)
 DCLR ≥   Agricultural area  4 (cm**3/g)                    ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCOF(19,4)
 DCLR ≥   Offsite Dwelling (cm**3/g)                        ≥ 5.000E+01 ≥ 1.380E+03 ≥    ---    ≥
DCNUCDWE(19)
 DCLR ≥   Leach rate (/yr)                                  ≥ 0.000E+00 ≥ 0.000E+00 ≥ 7.657E-06 ≥ ALEACH(19)
 DCLR ≥   Solubility constant                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(19)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  37
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
```

```
fffff
 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 ≥ 7.657E-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 ≥ 7.657E-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 ≥ 6.968E-08 ≥ ALEACH(31)
 DCLR ≥   Solubility constant                                 ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUBO(31)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  38
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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 ≥ 3.812E-05 ≥ 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 ≥ 5.397E-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 ≥ 5.397E-07 ≥ ALEACH(46)
 DCLR ≥   Solubility constant                             ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(46)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  39
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffff≈fffffffffff
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 ≥ 5.397E-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 ≥ 7.657E-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 ≥ 7.266E-03 ≥ ALEACH(58)
 DCLR ≥   Solubility constant                               ≥ 0.000E+00 ≥ 0.000E+00 ≥ not used  ≥ SOLUB0(58)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  40
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

                                              Site-Specific Parameter Summary (continued)
0     ≥                                                    ≥   User    ≥           ≥  RESRAD   ≥
Parameter
```

Menu	Parameter	Input	Default	computed	Name
DCLR	Distribution coefficients for progeny Th-229				
DCLR	Contaminated zone (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCC(60)
DCLR	Unsaturated zone 1 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCU(60,1)
DCLR	Unsaturated zone 2 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCU(60,2)
DCLR	Unsaturated zone 3 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCU(60,3)
DCLR	Unsaturated zone 4 (cm**3/g)	0.000E+00	6.000E+04	---	DCNUCU(60,4)
DCLR	Saturated zone (cm**3/g)	0.000E+00	6.000E+04	---	DCNUCS(60)
DCLR	Sediment in surface water body (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCSWB(60)
DCLR	Agricultural area 1 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(60,1)
DCLR	Agricultural area 2 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(60,2)
DCLR	Agricultural area 3 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(60,3)
DCLR	Agricultural area 4 (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCOF(60,4)
DCLR	Offsite Dwelling (cm**3/g)	1.000E+04	6.000E+04	---	DCNUCDWE(60)
DCLR	Leach rate (/yr)	0.000E+00	0.000E+00	3.832E-08	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 ≥ 1.200E+02 ≥ 1.000E+02 ≥ --- ≥ SOURCEXY(2)
LYOT ≥ Smaller X coordinate of Agricultural Area 1 ≥ 0.000E+00 ≥ 3.438E+01 ≥ --- ≥ AGRIXY(1,1)
LYOT ≥ Larger X coordinate of Agricultural Area 1 ≥ 1.750E+02 ≥ 6.563E+01 ≥ --- ≥ AGRIXY(2,1)
LYOT ≥ Smaller Y coordinate of Agricultural Area 1 ≥ 0.000E+00 ≥ 2.340E+02 ≥ --- ≥ AGRIXY(3,1)
LYOT ≥ Larger Y coordinate of Agricultural Area 1 ≥ 1.200E+02 ≥ 2.660E+02 ≥ --- ≥ AGRIXY(4,1)
LYOT ≥ Smaller X coordinate of Agricultural Area 2 ≥ 0.000E+00 ≥ 3.438E+01 ≥ --- ≥ AGRIXY(1,2)
LYOT ≥ Larger X coordinate of Agricultural Area 2 ≥ 1.750E+02 ≥ 6.563E+01 ≥ --- ≥ AGRIXY(2,2)
LYOT ≥ Smaller Y coordinate of Agricultural Area 2 ≥ 0.000E+00 ≥ 2.680E+02 ≥ --- ≥ AGRIXY(3,2)
LYOT ≥ Larger Y coordinate of Agricultural Area 2 ≥ 1.200E+02 ≥ 3.000E+02 ≥ --- ≥ AGRIXY(4,2)
LYOT ≥ Smaller X coordinate of Agricultural Area 3 ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ AGRIXY(1,3)
LYOT ≥ Larger X coordinate of Agricultural Area 3 ≥ 1.750E+02 ≥ 1.000E+02 ≥ --- ≥ AGRIXY(2,3)
LYOT ≥ Smaller Y coordinate of Agricultural Area 3 ≥ 0.000E+00 ≥ 4.500E+02 ≥ --- ≥ AGRIXY(3,3)
LYOT ≥ Larger Y coordinate of Agricultural Area 3 ≥ 1.200E+02 ≥ 5.500E+02 ≥ --- ≥ AGRIXY(4,3)
LYOT ≥ Smaller X coordinate of Agricultural Area 4 ≥ 0.000E+00 ≥ 0.000E+00 ≥ --- ≥ AGRIXY(1,4)
LYOT ≥ Larger X coordinate of Agricultural Area 4 ≥ 1.750E+02 ≥ 1.000E+02 ≥ --- ≥ AGRIXY(2,4)
LYOT ≥ Smaller Y coordinate of Agricultural Area 4 ≥ 0.000E+00 ≥ 3.000E+02 ≥ --- ≥ AGRIXY(3,4)
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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  41
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
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                     ≥ 9.900E-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 ≥    ---   ≥ DENSCZ
 PRCZ ≥ Soil erodibility factor of contaminated zone        ≥ 4.000E-01 ≥ 4.000E-01 ≥    ---   ≥
ERODIBILITYCZ
```

```
 PRCZ ≥ Contaminated zone field capacity                  ≥ 8.800E-03 ≥ 3.000E-01 ≥    ---    ≥ FCCZ
 PRCZ ≥ Contaminated zone b parameter                     ≥ 1.000E+00 ≥ 5.300E+00 ≥    ---    ≥ BCZ
 PRCZ ≥ Contaminated zone hydraulic conductivity (m/yr)   ≥ 3.340E+01 ≥ 1.000E+01 ≥    ---    ≥ HCCZ
 PRCZ ≥ Cover depth (m)                                   ≥ 1.000E+00 ≥ 0.000E+00 ≥    ---    ≥ COVER0
 PRCZ ≥ Total porosity of the cover material              ≥ not used  ≥ 4.000E-01 ≥    ---    ≥ TPCV
 PRCZ ≥ Computed erosion rate of cover material (m/yr)    ≥ 1.248E-05 ≥ 1.147E-05 ≥    ---    ≥ VCV
 PRCZ ≥ Density of cover material (g/cm**3)               ≥ 1.400E+00 ≥ 1.500E+00 ≥    ---    ≥ DENSCV
 PRCZ ≥ Soil erodibility factor of cover                  ≥ 4.000E-01 ≥ 4.000E-01 ≥    ---    ≥
ERODIBILITYCV
 PRCZ ≥ Volumetric water content of the cover material    ≥ not used  ≥ 5.000E-02 ≥    ---    ≥ PH2OCV
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  42
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffff≈fffffffffff
fffff
 AGRI ≥ Areal extent of Agricultural Area 1  (m**2)       ≥ 2.100E+04 ≥ 1.000E+03 ≥    ---    ≥ AREAO(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    ≥ 9.900E-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. Are1       ≥ 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 ≥    ---    ≥
CONVPRAC(1)
 AGRI ≥ Areal extent of Agricultural Area 2  (m**2)         ≥ 2.100E+04 ≥ 1.000E+03 ≥    ---    ≥ AREAO(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      ≥ 9.900E-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. Are2         ≥ 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 ≥    ---    ≥
CONVPRAC(2)
 AGRI ≥ Areal extent of Agricultural Area 3  (m**2)         ≥ 2.100E+04 ≥ 1.000E+04 ≥    ---    ≥ AREAO(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      ≥ 9.900E-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. Are3         ≥ 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)
```

```
 AGRI ≥ Soil erodibility factor of Agricultural Area 3      ≥ 4.000E-01 ≥ 4.000E-01 ≥    ---    ≥
ERODIBILITY(3)
 AGRI ≥ Slope-length-steepness factor, Agricultural Area 3  ≥ 3.250E+00 ≥ 4.000E-01 ≥    ---    ≥
SLPLENSTP(3)
 AGRI ≥ Cropping-management factor of Agricultural Area 3   ≥ 3.000E-03 ≥ 3.000E-03 ≥    ---    ≥ CRPMANG(3)
 AGRI ≥ Conservation practice factor of Agricultural Area 3 ≥ 1.000E+00 ≥ 1.000E+00 ≥    ---    ≥
CONVPRAC(3)
 AGRI ≥ Areal extent of Agricultural Area 4  (m**2)         ≥ 2.100E+04 ≥ 1.000E+04 ≥    ---    ≥ AREAO(4)
 AGRI ≥ Fraction of Agri. Area 4  directly over the c.z.    ≥ not used  ≥ 0.000E+00 ≥    ---    ≥
FAREA_PLANT(4)
 AGRI ≥ Evapotranspiration coefficient in Agri. Area 4      ≥ 9.900E-01 ≥ 5.000E-01 ≥    ---    ≥ EVAPTRN(4)
 AGRI ≥ Runoff coefficient in Agricultural Area 4           ≥ 2.500E-01 ≥ 2.000E-01 ≥    ---    ≥ RUNOF(4)
 AGRI ≥ Mixing depth/plow layer of Agricultural Area 4      ≥ 1.500E-01 ≥ 1.500E-01 ≥    ---    ≥
DPTHMIXG(4)
 AGRI ≥ Water filled porosity of soil in Agri. Area 4       ≥ 3.000E-01 ≥ 3.000E-01 ≥    ---    ≥ TMOF(4)
 AGRI ≥ Computed erosion rate of soil in Agri. Are4         ≥ 1.248E-05 ≥ 1.147E-05 ≥    ---    ≥ EROSN(4)
 AGRI ≥ Dry Bulk Density of soil in Agricultural Area 4     ≥ 1.400E+00 ≥ 1.500E+00 ≥    ---    ≥ RHOB(4)
 AGRI ≥ Soil erodibility factor of Agricultural Area 4      ≥ 4.000E-01 ≥ 4.000E-01 ≥    ---    ≥
ERODIBILITY(4)
 AGRI ≥ Slope-length-steepness factor, Agricultural Area 4  ≥ 3.250E+00 ≥ 4.000E-01 ≥    ---    ≥
SLPLENSTP(4)
 AGRI ≥ Cropping-management factor of Agricultural Area 4   ≥ 3.000E-03 ≥ 3.000E-03 ≥    ---    ≥ CRPMANG(4)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  43
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
```

fffff

```
 AGRI ≥ Conservation practice factor of Agricultural Area 4 ≥ 1.000E+00 ≥ 1.000E+00 ≥    ---    ≥
CONVPRAC(4)
      ≥                                                    ≥           ≥           ≥          ≥
 DWEL ≥ Areal extent of Offsite dwelling site (m**2)       ≥ 2.100E+04 ≥ 1.000E+03 ≥    ---    ≥ AREAODWELL
 DWEL ≥ Evapotranspiration coefficient in dwelling (Off)site≥ 9.900E-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  ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ EROSNDWELL
 DWEL ≥ Dry Bulk Density of soil in Offsite dwelling site  ≥ 1.400E+00 ≥ 1.500E+00 ≥    ---    ≥ RHOBDWELL
 DWEL ≥ Soil erodibility factor of soil in Dwelling site   ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
ERODIBILITYDWELL
 DWEL ≥ Slope-length-steepness factor of Dwelling site     ≥ 3.250E+00 ≥ 4.000E-01 ≥    ---    ≥
SLPLENSTPDWELL
 DWEL ≥ Cropping-management factor of Dwelling site        ≥ 3.000E-03 ≥ 3.000E-03 ≥    ---    ≥
CRPMANGDWELL
 DWEL ≥ Conservation practice factor of Offsite Dwelling sit≥ 1.000E+00 ≥ 1.000E+00 ≥    ---    ≥
CONVPRACDWELL
      ≥                                                    ≥           ≥           ≥          ≥
 AIRT ≥ Dispersion Coeffficients; 1 = Pasquill-Gifford     ≥         1 ≥         1 ≥    ---    ≥ IDISPMOD
 AIRT ≥ Population zone; 1 = Rural                         ≥         1 ≥         1 ≥    ---    ≥ IZONE
 AIRT ≥ Release height, (m)                                ≥ 1.000E-01 ≥ 1.000E+00 ≥    ---    ≥ AIRRELHT
 AIRT ≥ Heat flux for buoyant plume (cal/s),               ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ HEATFLX
 AIRT ≥ Anemometer height, (m)                             ≥ 1.200E+01 ≥ 1.000E+01 ≥    ---    ≥ ANH
 AIRT ≥ Absolute temperature (Kelvin)                      ≥ 2.820E+02 ≥ 2.850E+02 ≥    ---    ≥ TABK
 AIRT ≥ AM atmospheric mixing height (m)                   ≥ 1.600E+03 ≥ 4.000E+02 ≥    ---    ≥ AMIX
 AIRT ≥ PM atmospheric mixing height (m)                   ≥ 1.600E+03 ≥ 1.600E+03 ≥    ---    ≥ PMIX
 AIRT ≥ Elevation of Agricultural Area 1 above primary cont.≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
AGRIELEV(1)
 AIRT ≥ Elevation of Agricultural Area 2 above primary cont.≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
```

```
AGRIELEV(2)
 AIRT ≥ Elevation of Agricultural Area 3 above primary cont.≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
AGRIELEV(3)
 AIRT ≥ Elevation of Agricultural Area 4 above primary cont.≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
AGRIELEV(4)
 AIRT ≥ Elevation of Dwelling Site relative to primary cont.≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ DWELLELEV
 AIRT ≥ Elevation of Surf.Wtr body relative to primary cont.≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ SWELEV
      ≥                                                    ≥           ≥           ≥          ≥
 AIRT ≥ Joint frequency Meteorological data:               ≥           ≥           ≥          ≥
 AIRT ≥ Upper limit for windspeed class 1 (m/s)            ≥ 8.900E-01 ≥ 8.900E-01 ≥    ---    ≥
WINDSPEED(1)
 AIRT ≥ Upper limit for windspeed class 2 (m/s)            ≥ 2.460E+00 ≥ 2.460E+00 ≥    ---    ≥
WINDSPEED(2)
 AIRT ≥ Upper limit for windspeed class 3 (m/s)            ≥ 4.470E+00 ≥ 4.470E+00 ≥    ---    ≥
WINDSPEED(3)
 AIRT ≥ Upper limit for windspeed class 4 (m/s)            ≥ 6.930E+00 ≥ 6.930E+00 ≥    ---    ≥
WINDSPEED(4)
 AIRT ≥ Upper limit for windspeed class 5 (m/s)            ≥ 9.610E+00 ≥ 9.610E+00 ≥    ---    ≥
WINDSPEED(5)
 AIRT ≥ Upper limit for windspeed class 6 (m/s)            ≥ 1.252E+01 ≥ 1.252E+01 ≥    ---    ≥
WINDSPEED(6)
      ≥                                                    ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in N Sector                        ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 1 and stability class A    ≥ 1.320E-03 ≥ 1.000E+00 ≥    ---    ≥
DFREQ(1,1,1)
 AIRT ≥    for wind speed class 1 and stability class B    ≥ 3.100E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,1)
 AIRT ≥    for wind speed class 1 and stability class C    ≥ 6.900E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,1)
 AIRT ≥    for wind speed class 1 and stability class D    ≥ 4.320E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,1)
 AIRT ≥    for wind speed class 1 and stability class E    ≥ 1.530E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,1)
```

```
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 2.400E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,1)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  44
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
fffff
 AIRT ≥ Joint Frequency in N Sector                         ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 2 and stability class A     ≥ 1.190E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,1,1)
 AIRT ≥    for wind speed class 2 and stability class B     ≥ 1.290E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,2,1)
 AIRT ≥    for wind speed class 2 and stability class C     ≥ 5.400E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,3,1)
 AIRT ≥    for wind speed class 2 and stability class D     ≥ 2.157E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,4,1)
 AIRT ≥    for wind speed class 2 and stability class E     ≥ 7.290E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,5,1)
 AIRT ≥    for wind speed class 2 and stability class F     ≥ 1.560E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,6,1)
      ≥                                                     ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in N Sector                         ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 3 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,1,1)
 AIRT ≥    for wind speed class 3 and stability class B     ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,2,1)
```

```
 AIRT ≥    for wind speed class 3 and stability class C     ≥ 1.200E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,3,1)
 AIRT ≥    for wind speed class 3 and stability class D     ≥ 3.140E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,4,1)
 AIRT ≥    for wind speed class 3 and stability class E     ≥ 1.800E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,5,1)
 AIRT ≥    for wind speed class 3 and stability class F     ≥ 3.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,6,1)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in N Sector                         ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 4 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,1,1)
 AIRT ≥    for wind speed class 4 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,2,1)
 AIRT ≥    for wind speed class 4 and stability class C     ≥ 2.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,3,1)
 AIRT ≥    for wind speed class 4 and stability class D     ≥ 8.450E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,4,1)
 AIRT ≥    for wind speed class 4 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,5,1)
 AIRT ≥    for wind speed class 4 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,6,1)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in N Sector                         ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 5 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,1)
 AIRT ≥    for wind speed class 5 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,2,1)
 AIRT ≥    for wind speed class 5 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,3,1)
 AIRT ≥    for wind speed class 5 and stability class D     ≥ 2.300E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,4,1)
 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)
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 45
Parent Dose Report

Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

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

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

```
 AIRT ≥ Joint Frequency in NNE Sector                        ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 6 and stability class A      ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,2)
 AIRT ≥    for wind speed class 6 and stability class B      ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,2)
 AIRT ≥    for wind speed class 6 and stability class C      ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,2)
 AIRT ≥    for wind speed class 6 and stability class D      ≥ 8.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,2)
 AIRT ≥    for wind speed class 6 and stability class E      ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,2)
 AIRT ≥    for wind speed class 6 and stability class F      ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,2)
      ≥                                                      ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in NE Sector                         ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 1 and stability class A      ≥ 5.400E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,3)
 AIRT ≥    for wind speed class 1 and stability class B      ≥ 1.000E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,3)
 AIRT ≥    for wind speed class 1 and stability class C      ≥ 2.500E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,3)
 AIRT ≥    for wind speed class 1 and stability class D      ≥ 3.890E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,3)
 AIRT ≥    for wind speed class 1 and stability class E      ≥ 1.730E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,3)
 AIRT ≥    for wind speed class 1 and stability class F      ≥ 6.140E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,3)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  46
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

                                          Site-Specific Parameter Summary (continued)
```

0 Parameter Menu	Parameter	User Input	Default	RESRAD 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    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,1,3)
 AIRT ≥    for wind speed class 4 and stability class B    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,2,3)
 AIRT ≥    for wind speed class 4 and stability class C    ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,3,3)
 AIRT ≥    for wind speed class 4 and stability class D    ≥ 1.176E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,4,3)
 AIRT ≥    for wind speed class 4 and stability class E    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,5,3)
 AIRT ≥    for wind speed class 4 and stability class F    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,6,3)
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in NE Sector                       ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 5 and stability class A    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,3)
 AIRT ≥    for wind speed class 5 and stability class B    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,2,3)
 AIRT ≥    for wind speed class 5 and stability class C    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,3,3)
 AIRT ≥    for wind speed class 5 and stability class D    ≥ 2.460E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,4,3)
 AIRT ≥    for wind speed class 5 and stability class E    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,5,3)
 AIRT ≥    for wind speed class 5 and stability class F    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,6,3)
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in NE Sector                       ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 6 and stability class A    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,3)
 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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  47
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

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

```
 AIRT ≥    for wind speed class 4 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,2,4)
 AIRT ≥    for wind speed class 4 and stability class C     ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,3,4)
 AIRT ≥    for wind speed class 4 and stability class D     ≥ 1.388E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,4,4)
 AIRT ≥    for wind speed class 4 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,5,4)
 AIRT ≥    for wind speed class 4 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,6,4)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in ENE Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 5 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,4)
 AIRT ≥    for wind speed class 5 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,2,4)
 AIRT ≥    for wind speed class 5 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,3,4)
 AIRT ≥    for wind speed class 5 and stability class D     ≥ 3.630E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,4,4)
 AIRT ≥    for wind speed class 5 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,5,4)
 AIRT ≥    for wind speed class 5 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,6,4)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in ENE Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 6 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,4)
 AIRT ≥    for wind speed class 6 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,4)
 AIRT ≥    for wind speed class 6 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,4)
 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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  48
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈ffffffffffff
fffff
 AIRT ≥ Joint Frequency in E Sector                         ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 2 and stability class A     ≥ 2.600E-04 ≥ 0.000E+00 ≥    ---    ≥
```

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

```
 AIRT ≥    for wind speed class 4 and stability class D     ≥ 1.553E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,4,5)
 AIRT ≥    for wind speed class 4 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,5,5)
 AIRT ≥    for wind speed class 4 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,6,5)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in E Sector                         ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 5 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,5)
 AIRT ≥    for wind speed class 5 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,2,5)
 AIRT ≥    for wind speed class 5 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,3,5)
 AIRT ≥    for wind speed class 5 and stability class D     ≥ 4.250E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,4,5)
 AIRT ≥    for wind speed class 5 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,5,5)
 AIRT ≥    for wind speed class 5 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,6,5)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in E Sector                         ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 6 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,5)
 AIRT ≥    for wind speed class 6 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,5)
 AIRT ≥    for wind speed class 6 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,5)
 AIRT ≥    for wind speed class 6 and stability class D     ≥ 7.500E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,5)
 AIRT ≥    for wind speed class 6 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,5)
 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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  49
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

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

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

```
 AIRT ≥    for wind speed class 4 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,6,6)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in ESE Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 5 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,6)
 AIRT ≥    for wind speed class 5 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,2,6)
 AIRT ≥    for wind speed class 5 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,3,6)
 AIRT ≥    for wind speed class 5 and stability class D     ≥ 4.700E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,4,6)
 AIRT ≥    for wind speed class 5 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,5,6)
 AIRT ≥    for wind speed class 5 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,6,6)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in ESE Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 6 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,6)
 AIRT ≥    for wind speed class 6 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,6)
 AIRT ≥    for wind speed class 6 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,6)
 AIRT ≥    for wind speed class 6 and stability class D     ≥ 1.510E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,6)
 AIRT ≥    for wind speed class 6 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,6)
 AIRT ≥    for wind speed class 6 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,6)
      ≥                                                     ≥           ≥           ≥          ≥
 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)
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 50
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

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

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

```
 AIRT ≥    for wind speed class 5 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,7)
 AIRT ≥    for wind speed class 5 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,2,7)
 AIRT ≥    for wind speed class 5 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,3,7)
 AIRT ≥    for wind speed class 5 and stability class D     ≥ 2.050E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,4,7)
 AIRT ≥    for wind speed class 5 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,5,7)
 AIRT ≥    for wind speed class 5 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,6,7)
      ≥                                                    ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in SE Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 6 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,7)
 AIRT ≥    for wind speed class 6 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,7)
 AIRT ≥    for wind speed class 6 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,7)
 AIRT ≥    for wind speed class 6 and stability class D     ≥ 6.000E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,7)
 AIRT ≥    for wind speed class 6 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,7)
 AIRT ≥    for wind speed class 6 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,7)
      ≥                                                    ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in SSE Sector                      ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 1 and stability class A     ≥ 5.200E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,8)
 AIRT ≥    for wind speed class 1 and stability class B     ≥ 9.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,8)
 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)
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 51
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffffff≈fffffffffff≈fffffffffff≈fffffffffff≈fffffffffff
fffff
 AIRT ≥ Joint Frequency in SSE Sector ≥ ≥ ≥ ≥
 AIRT ≥ for wind speed class 2 and stability class A ≥ 2.600E-04 ≥ 0.000E+00 ≥ --- ≥
DFREQ(2,1,8)
 AIRT ≥ for wind speed class 2 and stability class B ≥ 1.800E-04 ≥ 0.000E+00 ≥ --- ≥
DFREQ(2,2,8)
 AIRT ≥ for wind speed class 2 and stability class C ≥ 5.200E-04 ≥ 0.000E+00 ≥ --- ≥
DFREQ(2,3,8)
 AIRT ≥ for wind speed class 2 and stability class D ≥ 7.070E-03 ≥ 0.000E+00 ≥ --- ≥
DFREQ(2,4,8)
 AIRT ≥ for wind speed class 2 and stability class E ≥ 4.710E-03 ≥ 0.000E+00 ≥ --- ≥
DFREQ(2,5,8)
 AIRT ≥ for wind speed class 2 and stability class F ≥ 1.464E-02 ≥ 0.000E+00 ≥ --- ≥
DFREQ(2,6,8)
 ≥ ≥ ≥ ≥ ≥

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

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

DFREQ(1,5,9)
 AIRT ≥ for wind speed class 1 and stability class F ≥ 6.750E-03 ≥ 0.000E+00 ≥ --- ≥
DFREQ(1,6,9)
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 52
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 ≥ Parameter Menu ≥	Parameter	≥ User Input ≥	Default ≥	RESRAD computed ≥	Name ≥ Parameter
AIRT ≥	Joint Frequency in S Sector	≥	≥	≥	≥
AIRT ≥	for wind speed class 2 and stability class A	≥ 2.800E-04	≥ 0.000E+00	≥ ---	≥ DFREQ(2,1,9)
AIRT ≥	for wind speed class 2 and stability class B	≥ 2.400E-04	≥ 0.000E+00	≥ ---	≥ DFREQ(2,2,9)
AIRT ≥	for wind speed class 2 and stability class C	≥ 5.600E-04	≥ 0.000E+00	≥ ---	≥ DFREQ(2,3,9)
AIRT ≥	for wind speed class 2 and stability class D	≥ 7.070E-03	≥ 0.000E+00	≥ ---	≥ DFREQ(2,4,9)
AIRT ≥	for wind speed class 2 and stability class E	≥ 4.300E-03	≥ 0.000E+00	≥ ---	≥ DFREQ(2,5,9)
AIRT ≥	for wind speed class 2 and stability class F	≥ 8.060E-03	≥ 0.000E+00	≥ ---	≥ DFREQ(2,6,9)
≥		≥	≥	≥	≥
AIRT ≥	Joint Frequency in S Sector	≥	≥	≥	≥
AIRT ≥	for wind speed class 3 and stability class A	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥ DFREQ(3,1,9)
AIRT ≥	for wind speed class 3 and stability class B	≥ 1.000E-05	≥ 0.000E+00	≥ ---	≥

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

```
 AIRT ≥    for wind speed class 5 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,5,9)
 AIRT ≥    for wind speed class 5 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,6,9)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in S Sector                         ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 6 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,9)
 AIRT ≥    for wind speed class 6 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,9)
 AIRT ≥    for wind speed class 6 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,9)
 AIRT ≥    for wind speed class 6 and stability class D     ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,9)
 AIRT ≥    for wind speed class 6 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,9)
 AIRT ≥    for wind speed class 6 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,9)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in SSW Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 1 and stability class A     ≥ 1.280E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,10)
 AIRT ≥    for wind speed class 1 and stability class B     ≥ 3.600E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,10)
 AIRT ≥    for wind speed class 1 and stability class C     ≥ 6.800E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,10)
 AIRT ≥    for wind speed class 1 and stability class D     ≥ 4.340E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,10)
 AIRT ≥    for wind speed class 1 and stability class E     ≥ 1.400E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,10)
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 4.370E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,10)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  53
```

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
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    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,1,10)
 AIRT ≥    for wind speed class 6 and stability class B    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,10)
 AIRT ≥    for wind speed class 6 and stability class C    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,10)
 AIRT ≥    for wind speed class 6 and stability class D    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,10)
 AIRT ≥    for wind speed class 6 and stability class E    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,10)
 AIRT ≥    for wind speed class 6 and stability class F    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,10)
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in SW Sector                       ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 1 and stability class A    ≥ 1.910E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,11)
 AIRT ≥    for wind speed class 1 and stability class B    ≥ 5.800E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,11)
 AIRT ≥    for wind speed class 1 and stability class C    ≥ 7.500E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,11)
 AIRT ≥    for wind speed class 1 and stability class D    ≥ 4.290E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,11)
 AIRT ≥    for wind speed class 1 and stability class E    ≥ 9.900E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,11)
 AIRT ≥    for wind speed class 1 and stability class F    ≥ 2.530E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,11)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  54
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF
```

Site-Specific Parameter Summary (continued)

0 Menu	Parameter	User Input	Default	RESRAD computed	Parameter Name
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     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,2,11)
 AIRT ≥    for wind speed class 6 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,3,11)
 AIRT ≥    for wind speed class 6 and stability class D     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,11)
 AIRT ≥    for wind speed class 6 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,11)
 AIRT ≥    for wind speed class 6 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,11)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in WSW Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 1 and stability class A     ≥ 3.250E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,12)
 AIRT ≥    for wind speed class 1 and stability class B     ≥ 1.040E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,12)
 AIRT ≥    for wind speed class 1 and stability class C     ≥ 1.620E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,12)
 AIRT ≥    for wind speed class 1 and stability class D     ≥ 4.740E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,12)
 AIRT ≥    for wind speed class 1 and stability class E     ≥ 8.200E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,12)
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 1.630E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,12)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  55
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

```
ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 AIRT ≥ Joint Frequency in WSW Sector                      ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 2 and stability class A    ≥ 1.130E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,1,12)
 AIRT ≥    for wind speed class 2 and stability class B    ≥ 1.430E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,2,12)
 AIRT ≥    for wind speed class 2 and stability class C    ≥ 3.870E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,3,12)
 AIRT ≥    for wind speed class 2 and stability class D    ≥ 7.670E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,4,12)
 AIRT ≥    for wind speed class 2 and stability class E    ≥ 8.200E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,5,12)
 AIRT ≥    for wind speed class 2 and stability class F    ≥ 3.100E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,6,12)
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in WSW Sector                      ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 3 and stability class A    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,1,12)
 AIRT ≥    for wind speed class 3 and stability class B    ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,2,12)
 AIRT ≥    for wind speed class 3 and stability class C    ≥ 4.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,3,12)
 AIRT ≥    for wind speed class 3 and stability class D    ≥ 1.320E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,4,12)
 AIRT ≥    for wind speed class 3 and stability class E    ≥ 7.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,5,12)
 AIRT ≥    for wind speed class 3 and stability class F    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,6,12)
      ≥                                                    ≥           ≥           ≥           ≥
 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     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,4,12)
 AIRT ≥    for wind speed class 6 and stability class E     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,5,12)
 AIRT ≥    for wind speed class 6 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,12)
      ≥                                                     ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in W Sector                         ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 1 and stability class A     ≥ 3.520E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,13)
 AIRT ≥    for wind speed class 1 and stability class B     ≥ 1.240E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,13)
 AIRT ≥    for wind speed class 1 and stability class C     ≥ 1.970E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,13)
 AIRT ≥    for wind speed class 1 and stability class D     ≥ 6.080E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,13)
 AIRT ≥    for wind speed class 1 and stability class E     ≥ 9.000E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,13)
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 1.430E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,13)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  56
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 AIRT ≥ Joint Frequency in W Sector                         ≥           ≥           ≥           ≥
```

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

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

```
 AIRT ≥    for wind speed class 6 and stability class F     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(6,6,13)
      ≥                                                     ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in WNW Sector                       ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 1 and stability class A     ≥ 2.690E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,14)
 AIRT ≥    for wind speed class 1 and stability class B     ≥ 9.500E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,14)
 AIRT ≥    for wind speed class 1 and stability class C     ≥ 1.290E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,14)
 AIRT ≥    for wind speed class 1 and stability class D     ≥ 4.270E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,14)
 AIRT ≥    for wind speed class 1 and stability class E     ≥ 6.600E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,14)
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 1.330E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,14)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  57
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 AIRT ≥ Joint Frequency in WNW Sector                       ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 2 and stability class A     ≥ 1.620E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,1,14)
 AIRT ≥    for wind speed class 2 and stability class B     ≥ 1.970E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,2,14)
```

```
 AIRT ≥    for wind speed class 2 and stability class C     ≥ 5.130E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,3,14)
 AIRT ≥    for wind speed class 2 and stability class D     ≥ 8.220E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,4,14)
 AIRT ≥    for wind speed class 2 and stability class E     ≥ 8.100E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,5,14)
 AIRT ≥    for wind speed class 2 and stability class F     ≥ 2.600E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,6,14)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in WNW Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 3 and stability class A     ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,1,14)
 AIRT ≥    for wind speed class 3 and stability class B     ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,2,14)
 AIRT ≥    for wind speed class 3 and stability class C     ≥ 9.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,3,14)
 AIRT ≥    for wind speed class 3 and stability class D     ≥ 9.000E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,4,14)
 AIRT ≥    for wind speed class 3 and stability class E     ≥ 6.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,5,14)
 AIRT ≥    for wind speed class 3 and stability class F     ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,6,14)
      ≥                                                     ≥           ≥           ≥          ≥
 AIRT ≥ Joint Frequency in WNW Sector                       ≥           ≥           ≥          ≥
 AIRT ≥    for wind speed class 4 and stability class A     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,1,14)
 AIRT ≥    for wind speed class 4 and stability class B     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,2,14)
 AIRT ≥    for wind speed class 4 and stability class C     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,3,14)
 AIRT ≥    for wind speed class 4 and stability class D     ≥ 6.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,4,14)
 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     ≥ 2.370E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,1,15)
 AIRT ≥    for wind speed class 1 and stability class B     ≥ 7.400E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,2,15)
 AIRT ≥    for wind speed class 1 and stability class C     ≥ 1.250E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,15)
 AIRT ≥    for wind speed class 1 and stability class D     ≥ 4.150E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,15)
 AIRT ≥    for wind speed class 1 and stability class E     ≥ 7.900E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,15)
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 1.300E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,15)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  58
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈ffffffffffff
fffff
 AIRT ≥ Joint Frequency in NW Sector                        ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 2 and stability class A     ≥ 1.630E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,1,15)
 AIRT ≥    for wind speed class 2 and stability class B     ≥ 2.360E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,2,15)
 AIRT ≥    for wind speed class 2 and stability class C     ≥ 6.430E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,3,15)
 AIRT ≥    for wind speed class 2 and stability class D     ≥ 1.140E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(2,4,15)
```

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

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

```
 AIRT ≥    for wind speed class 1 and stability class C     ≥ 8.800E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,3,16)
 AIRT ≥    for wind speed class 1 and stability class D     ≥ 4.200E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,4,16)
 AIRT ≥    for wind speed class 1 and stability class E     ≥ 1.240E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,5,16)
 AIRT ≥    for wind speed class 1 and stability class F     ≥ 1.880E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(1,6,16)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  59
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

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

```
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in NNW Sector                      ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 3 and stability class A    ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,1,16)
 AIRT ≥    for wind speed class 3 and stability class B    ≥ 1.000E-05 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,2,16)
 AIRT ≥    for wind speed class 3 and stability class C    ≥ 6.600E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,3,16)
 AIRT ≥    for wind speed class 3 and stability class D    ≥ 1.573E-02 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,4,16)
 AIRT ≥    for wind speed class 3 and stability class E    ≥ 3.000E-04 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,5,16)
 AIRT ≥    for wind speed class 3 and stability class F    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(3,6,16)
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in NNW Sector                      ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 4 and stability class A    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,1,16)
 AIRT ≥    for wind speed class 4 and stability class B    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,2,16)
 AIRT ≥    for wind speed class 4 and stability class C    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,3,16)
 AIRT ≥    for wind speed class 4 and stability class D    ≥ 2.270E-03 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,4,16)
 AIRT ≥    for wind speed class 4 and stability class E    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,5,16)
 AIRT ≥    for wind speed class 4 and stability class F    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(4,6,16)
      ≥                                                    ≥           ≥           ≥           ≥
 AIRT ≥ Joint Frequency in NNW Sector                      ≥           ≥           ≥           ≥
 AIRT ≥    for wind speed class 5 and stability class A    ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥
DFREQ(5,1,16)
 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
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  60
 Parent Dose Report
```

Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

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

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)

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Site-Specific Parameter Summary (continued)

0 Parameter Menu	Parameter	User Input	Default	RESRAD computed	Name

```
ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 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 ≥    ---    ≥ ALPHALOW
 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 ≥    ---    ≥ FWWLV(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 ≥    ---    ≥ FWWLV(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 ≥    ---    ≥ FWWIR(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 ≥    ---    ≥ FWWIR(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 ≥    ---    ≥ FWWIR(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)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  62
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

ƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒ≈ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒ
 WTRU ≥ Fraction of irrigation water  4 from well water     ≥ 1.000E+00 ≥ 1.000E+00 ≥    ---    ≥ FWWIR(4)
 WTRU ≥ Irrigation rate in Offsite dwelling site (m/yr)     ≥ 0.000E+00 ≥ 2.000E-01 ≥    ---    ≥
RIRRIGDWELL
 WTRU ≥ Fraction of irrigation water from surface water     ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ FSWIRDWELL
 WTRU ≥ Fraction of irrigation water from well water        ≥ 1.000E+00 ≥ 1.000E+00 ≥    ---    ≥ FWWIRDWELL
```

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 1from affected area	not used	1.000E+00	---	FMEMI(1)	
INGE	Milk consumption (L/yr)	not used	9.200E+01	---	DMI(2)	
INGE	Fraction of milk from affected area	not used	1.000E+00	---	FMEMI(2)	
INGE	Soil ingestion rate (g/yr)	7.300E+01	3.650E+01	---	SOIL	
VEGE	Wet weight crop yield for Non-Leafy (kg/m**2)	not used	7.000E-01	---	YIELD(1)	
VEGE	Growing Season for Non-Leafy (years)	not used	1.700E-01	---	GROWTIME(1)	
VEGE	Translocation Factor for Non-Leafy	not used	1.000E-01	---	FOLI_F(1)	
VEGE	Weathering Removal Constant for Non-Leafy	not used	2.000E+01	---	RWEATHER(1)	
VEGE	Foliar Interception Fraction for dust Non-Leafy	not used	2.500E-01	---	FINTCEPT(1,1)	
VEGE	Foliar Intercept-n Fract-n for irrigation Non-Leafy	not used	2.500E-01	---	FINTCEPT(1,2)	
VEGE	Depth of roots for Non-Leafy (m)	not used	1.200E+00	---	DROOT(1)	
VEGE	Wet weight crop yield for Leafy (kg/m**2)	not used	1.500E+00	---	YIELD(2)	

```
 VEGE ≥ Growing Season for Leafy     (years)                ≥ not used  ≥ 2.500E-01 ≥    ---    ≥
GROWTIME(2)
 VEGE ≥ Translocation Factor for Leafy                      ≥ not used  ≥ 1.000E+00 ≥    ---    ≥ FOLI_F(2)
 VEGE ≥ Weathering Removal Constant for Leafy               ≥ not used  ≥ 2.000E+01 ≥    ---    ≥
RWEATHER(2)
 VEGE ≥ Foliar Interception Fraction for dust Leafy         ≥ not used  ≥ 2.500E-01 ≥    ---    ≥
FINTCEPT(2,1)
 VEGE ≥ Foliar Intercept-n Fract-n for irrigation Leafy     ≥ not used  ≥ 2.500E-01 ≥    ---    ≥
FINTCEPT(2,2)
 VEGE ≥ Depth of roots for Leafy     (m)                    ≥ not used  ≥ 9.000E-01 ≥    ---    ≥ DROOT(2)
 VEGE ≥ Wet weight crop yield for Pasture   (kg/m**2)       ≥ not used  ≥ 1.100E+00 ≥    ---    ≥ YIELD(3)
 VEGE ≥ Growing Season for Pasture   (years)                ≥ not used  ≥ 8.000E-02 ≥    ---    ≥
GROWTIME(3)
 VEGE ≥ Translocation Factor for Pasture                    ≥ not used  ≥ 1.000E+00 ≥    ---    ≥ FOLI_F(3)
 VEGE ≥ Weathering Removal Constant for Pasture             ≥ not used  ≥ 2.000E+01 ≥    ---    ≥
RWEATHER(3)
 VEGE ≥ Foliar Interception Fraction for dust Pasture       ≥ not used  ≥ 2.500E-01 ≥    ---    ≥
FINTCEPT(3,1)
 VEGE ≥ Foliar Intercept-n Fract-n for irrigation Pasture   ≥ not used  ≥ 2.500E-01 ≥    ---    ≥
FINTCEPT(3,2)
 VEGE ≥ Depth of roots for Pasture   (m)                    ≥ not used  ≥ 9.000E-01 ≥    ---    ≥ DROOT(3)
 VEGE ≥ Wet weight crop yield for Grain     (kg/m**2)       ≥ not used  ≥ 7.000E-01 ≥    ---    ≥ YIELD(4)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  63
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈fffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
```

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

```
 SEXT ≥   Outer annular radius (m), ring  3:                ≥ 2.700E+01 ≥ 1.800E+01 ≥    ---    ≥
RAD_SHAPE( 3)
 SEXT ≥   Outer annular radius (m), ring  4:                ≥ 3.600E+01 ≥ 2.400E+01 ≥    ---    ≥
RAD_SHAPE( 4)
 SEXT ≥   Outer annular radius (m), ring  5:                ≥ 4.500E+01 ≥ 3.000E+01 ≥    ---    ≥
RAD_SHAPE( 5)
 SEXT ≥   Outer annular radius (m), ring  6:                ≥ 5.400E+01 ≥ 3.600E+01 ≥    ---    ≥
RAD_SHAPE( 6)
 SEXT ≥   Outer annular radius (m), ring  7:                ≥ 6.300E+01 ≥ 4.200E+01 ≥    ---    ≥
RAD_SHAPE( 7)
 SEXT ≥   Outer annular radius (m), ring  8:                ≥ 7.200E+01 ≥ 4.800E+01 ≥    ---    ≥
RAD_SHAPE( 8)
 SEXT ≥   Outer annular radius (m), ring  9:                ≥ 8.100E+01 ≥ 5.400E+01 ≥    ---    ≥
RAD_SHAPE( 9)
 SEXT ≥   Outer annular radius (m), ring 10:                ≥ 9.000E+01 ≥ 6.000E+01 ≥    ---    ≥
RAD_SHAPE(10)
 SEXT ≥   Outer annular radius (m), ring 11:                ≥ 9.900E+01 ≥ 6.600E+01 ≥    ---    ≥
RAD_SHAPE(11)
 SEXT ≥   Outer annular radius (m), ring 12:                ≥ 1.080E+02 ≥ 7.200E+01 ≥    ---    ≥
RAD_SHAPE(12)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  64
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

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

fffff≈ffffffffffffffffffffffffffffffffffffffffffffffffffff≈ffffffffff≈ffffffffff≈ffffffffff≈fffffffffff
fffff
 SEXT ≥ Fractions of annular areas within AREA:             ≥           ≥           ≥           ≥
```

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

```
RAD_SHAPE(22)
 SEXT ≥   Outer annular radius (m), ring 23:              ≥ 9.900E+01 ≥ 1.458E+02 ≥    ---    ≥
RAD_SHAPE(23)
 SEXT ≥   Outer annular radius (m), ring 24:              ≥ 1.080E+02 ≥ 1.590E+02 ≥    ---    ≥
RAD_SHAPE(24)
 SEXT ≥ Fractions of annular areas within AREA:           ≥           ≥           ≥          ≥
 SEXT ≥   Ring 13                                         ≥ 1.000E+00 ≥ 0.000E+00 ≥    ---    ≥ FRACA(13)
 SEXT ≥   Ring 14                                         ≥ 1.000E+00 ≥ 0.000E+00 ≥    ---    ≥ FRACA(14)
 SEXT ≥   Ring 15                                         ≥ 1.000E+00 ≥ 0.000E+00 ≥    ---    ≥ FRACA(15)
 SEXT ≥   Ring 16                                         ≥ 1.000E+00 ≥ 2.400E-02 ≥    ---    ≥ FRACA(16)
 SEXT ≥   Ring 17                                         ≥ 1.000E+00 ≥ 1.900E-01 ≥    ---    ≥ FRACA(17)
 SEXT ≥   Ring 18                                         ≥ 1.000E+00 ≥ 2.400E-01 ≥    ---    ≥ FRACA(18)
 SEXT ≥   Ring 19                                         ≥ 9.600E-01 ≥ 2.000E-01 ≥    ---    ≥ FRACA(19)
 SEXT ≥   Ring 20                                         ≥ 7.000E-01 ≥ 1.700E-01 ≥    ---    ≥ FRACA(20)
 SEXT ≥   Ring 21                                         ≥ 5.700E-01 ≥ 1.500E-01 ≥    ---    ≥ FRACA(21)
 SEXT ≥   Ring 22                                         ≥ 4.800E-01 ≥ 1.300E-01 ≥    ---    ≥ FRACA(22)
 SEXT ≥   Ring 23                                         ≥ 2.000E-01 ≥ 1.200E-01 ≥    ---    ≥ FRACA(23)
 SEXT ≥   Ring 24                                         ≥ 4.300E-02 ≥ 5.200E-02 ≥    ---    ≥ FRACA(24)
      ≥                                                   ≥           ≥           ≥          ≥
 OCCU ≥ Fraction of time spent indoors on contaminated site ≥ 0.000E+00 ≥ 0.000E+00 ≥    ---    ≥ FIND
 OCCU ≥ Fraction of time spent outdoors on contaminated site≥ 2.053E-01 ≥ 0.000E+00 ≥    ---    ≥ FOTD
 OCCU ≥ Fraction of time spent indoors in Offsite Dwelling  ≥ 0.000E+00 ≥ 5.000E-01 ≥    ---    ≥ FINDDWELL
 OCCU ≥ Fraction of time spent outdoors in Offsite Dwelling ≥ 0.000E+00 ≥ 1.000E-01 ≥    ---    ≥ FOTDDWELL
 OCCU ≥ Fraction of time spent outdoors in agri. area  1    ≥ 0.000E+00 ≥ 1.000E-01 ≥    ---    ≥
OCCUPANCY(1)
 OCCU ≥ Fraction of time spent outdoors in agri. area  2    ≥ 0.000E+00 ≥ 1.000E-01 ≥    ---    ≥
OCCUPANCY(2)
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  65
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO CAP HYDRO.ROF

                                          Site-Specific Parameter Summary (continued)
```

0 Parameter Menu	Parameter	User Input	Default	RESRAD 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	---	C14EVSN
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	C12EVSN
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 ≥    ---    ≥
H2OMEAT_MILK(1)
 H3   ≥ Mass fraction of water in milk (g/g)                ≥ not used  ≥ 8.800E-01 ≥    ---    ≥
H2OMEAT_MILK(2)
 H3   ≥ Mass fraction of water in vegetable 1 (g/g)         ≥ not used  ≥ 8.000E-01 ≥    ---    ≥
H2OPLANT(1)
 H3   ≥ Mass fraction of water in vegetable 2 (g/g)         ≥ not used  ≥ 8.000E-01 ≥    ---    ≥
H2OPLANT(2)
 H3   ≥ Mass fraction of water in livestock feed 1 (g/g)    ≥ not used  ≥ 8.000E-01 ≥    ---    ≥
H2OPLANT(3)
 H3   ≥ Mass fraction of water in livestock feed 2 (g/g)    ≥ not used  ≥ 8.000E-01 ≥    ---    ≥
H2OPLANT(4)

ÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕœÕÕÕÕÕÕÕÕÕÕÕ
ÕÕÕÕÕ
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  66
 Parent Dose Report
```

Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Summary of Pathway Selections

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

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 67
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Contaminated Zone Dimensions

Area: 21000.00 square meters
Thickness: 7.26 meters
Cover Depth: 1.00 meters

Initial Soil Concentrations, pCi/g

Ac-227	2.340E+00
Al-26	7.640E+02
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)

t (years):	0.000E+00	1.000E+00	6.000E+00	1.200E+01	3.000E+01	1.000E+02	3.000E+02	1.000E+03
TDOSE(t):	7.266E-02	7.277E-02	7.251E-02	7.192E-02	7.094E-02	7.032E-02	7.213E-02	7.990E-02
M(t):	4.844E-03	4.851E-03	4.834E-03	4.795E-03	4.730E-03	4.688E-03	4.809E-03	5.327E-03

0Maximum TDOSE(t): 8.024E-02 mrem/yr at t = 1030 years

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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 = 0 years
0 From releases to ground water and to surface water

0 Radio- Nuclide	Ground Dose	%	Fish Dose	%	Radon Dose	%	Plant Dose	%	Meat Dose	%	Milk Dose	%	Soil Dose	%
Water														
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		
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

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
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 69
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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 = 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- *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff*
fffffffffff
Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose %
Dose %
fffffff *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff*
ffffffff fff
Ac-227 2.59E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.59E-07 0
Al-26 6.87E-02 95 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
6.87E-02 95
Am-241 2.96E-12 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.96E-12 0
Cf-249 4.06E-10 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

4.06E-10	0														
Cf-251	3.55E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.55E-12	0														
Cf-252	1.44E-23	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.44E-23	0														
Cl-36	9.94E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
9.94E-13	0														
Co-60	2.54E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.54E-04	0														
Cs-134	8.91E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
8.91E-12	0														
Cs-137	3.28E-03	5	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.28E-03	5														
Eu-154	1.23E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.23E-07	0														
Eu-155	6.40E-16	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
6.40E-16	0														
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Ho-166m	2.16E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.16E-06	0														
Na-22	1.31E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.31E-08	0														
Np-237	2.10E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.10E-11	0														
Pb-210	6.28E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
6.28E-11	0														
Pm-147	1.88E-26	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.88E-26	0														
Pu-238	1.64E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.64E-13	0														
Pu-239	2.78E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.78E-09	0														

Pu-240	1.19E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.19E-15
Pu-241	7.94E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.94E-12
Pu-242	1.91E-18	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.91E-18
Ra-226	1.95E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.95E-04
Ra-228	1.84E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.84E-04
Ru-106	2.02E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.02E-15
Sb-125	2.43E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.43E-10
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
Sn-121m	5.32E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.32E-17
Sn-126	4.37E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.37E-07
Sr-90	1.27E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.27E-07
Th-228	1.71E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.71E-06
Th-230	9.19E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.19E-07
Th-232	2.19E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.19E-08
U-233	1.30E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.30E-10
U-234	1.59E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.59E-12
U-235	1.23E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	

1.23E-07 0
U-236 2.35E-17 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.35E-17 0
U-238 4.35E-06 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
4.35E-06 0
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 7.27E-02 100 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
7.27E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 70
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
0 From releases to ground water and to surface water
0 Ground Fish Radon Plant Meat Milk Soil
Water
Radio- *fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff*
fffffffffff
Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose %
Dose %
ffffffff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff
ffffffff fff
Ac-227 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
Al-26 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
Am-241 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0

Cf-249	0.00E+00	0	0.00E+00	0	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	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
 ÕÕÕÕÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
 Total    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
0.00E+00   0
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  71
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
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    %
 fffffff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff
ffffffff fff
 Ac-227   2.51E-07   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
2.51E-07   0
 Al-26    6.87E-02  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
6.87E-02  94
 Am-241   8.87E-12   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
8.87E-12   0
```

Cf-249	4.06E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.06E-10	0
Cf-251	3.55E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.55E-12	0
Cf-252	1.11E-23	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.11E-23	0
Cl-36	9.87E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.87E-13	0
Co-60	2.22E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.22E-04	0
Cs-134	6.37E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.37E-12	0
Cs-137	3.21E-03	4	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.21E-03	4
Eu-154	1.14E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.14E-07	0
Eu-155	5.57E-16	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.57E-16	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ho-166m	2.16E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.16E-06	0
Na-22	1.01E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.01E-08	0
Np-237	2.10E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.10E-11	0
Pb-210	9.95E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.95E-11	0
Pm-147	1.44E-26	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.44E-26	0
Pu-238	1.68E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.68E-13	0
Pu-239	2.78E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		

2.78E-09	0														
Pu-240	1.19E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.19E-15	0														
Pu-241	7.59E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
7.59E-12	0														
Pu-242	5.09E-18	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
5.09E-18	0														
Ra-226	1.95E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.95E-04	0														
Ra-228	3.92E-04	1	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.92E-04	1														
Ru-106	1.01E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.01E-15	0														
Sb-125	1.88E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.88E-10	0														
Sm-151	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Sn-121m	5.26E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
5.26E-17	0														
Sn-126	4.38E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.38E-07	0														
Sr-90	1.24E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.24E-07	0														
Th-228	1.19E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.19E-06	0														
Th-230	2.76E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.76E-06	0														
Th-232	1.07E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.07E-07	0														
U-233	3.85E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.85E-10	0														
U-234	1.00E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.00E-11	0														

U-235 1.23E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.23E-07 0
U-236 1.44E-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
1.44E-16 0
U-238 4.35E-06 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
4.35E-06 0
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 7.28E-02 100 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
7.28E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 72
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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 From releases to ground water and to surface water
0 Ground Fish Radon Plant Meat Milk Soil
Water
Radio- *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff*
fffffffffff
Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose %
Dose %
ffffff *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff*
ffffffff fff
Ac-227 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
Al-26 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
Am-241 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

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

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
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 73
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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- *fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff*
fffffffffff
Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose %
Dose %
ffffffff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff
ffffffff fff
Ac-227 2.14E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.14E-07 0
Al-26 6.88E-02 95 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
6.88E-02 95
Am-241 3.83E-11 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

3.83E-11	0														
Cf-249	4.02E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.02E-10	0														
Cf-251	3.54E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.54E-12	0														
Cf-252	3.03E-24	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.03E-24	0														
Cl-36	9.53E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
9.53E-13	0														
Co-60	1.15E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.15E-04	0														
Cs-134	1.19E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.19E-12	0														
Cs-137	2.86E-03	4	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.86E-03	4														
Eu-154	7.67E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
7.67E-08	0														
Eu-155	2.77E-16	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.77E-16	0														
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Ho-166m	2.15E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.15E-06	0														
Na-22	2.66E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.66E-09	0														
Np-237	2.10E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.10E-11	0														
Pb-210	9.19E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
9.19E-11	0														
Pm-147	3.86E-27	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.86E-27	0														
Pu-238	5.32E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
5.32E-13	0														

Pu-239	2.78E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.78E-09	0
Pu-240	1.19E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.19E-15	0
Pu-241	6.45E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.45E-12	0
Pu-242	2.10E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.10E-17	0
Ra-226	1.95E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.95E-04	0
Ra-228	5.36E-04	1	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.36E-04	1
Ru-106	3.15E-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	3.15E-17	0
Sb-125	5.19E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.19E-11	0
Sm-151	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Sn-121m	4.95E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.95E-17	0
Sn-126	4.38E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.38E-07	0
Sr-90	1.10E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.10E-07	0
Th-228	1.95E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.95E-07	0
Th-230	1.19E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.19E-05	0
Th-232	8.70E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.70E-07	0
U-233	1.66E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.66E-09	0
U-234	1.78E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		

1.78E-10 0
U-235 1.23E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.23E-07 0
U-236 4.97E-15 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
4.97E-15 0
U-238 4.35E-06 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
4.35E-06 0
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 7.25E-02 100 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
7.25E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 74
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
0 From releases to ground water and to surface water
0 Ground Fish Radon Plant Meat Milk Soil
Water
Radio- *fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff*
fffffffffff
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 0.00E+00 0 0.00E+00 0 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

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
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 75
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
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 %
fffffff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff ffffffff fff
ffffffff fff
Ac-227 1.77E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.77E-07 0
Al-26 6.88E-02 96 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
6.88E-02 96

Am-241	7.34E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.34E-11	0
Cf-249	3.98E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.98E-10	0
Cf-251	3.53E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.53E-12	0
Cf-252	7.20E-25	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.20E-25	0
Cl-36	9.14E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.14E-13	0
Co-60	5.19E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.19E-05	0
Cs-134	1.58E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.58E-13	0
Cs-137	2.49E-03	3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.49E-03	3
Eu-154	4.79E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.79E-08	0
Eu-155	1.20E-16	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.20E-16	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ho-166m	2.15E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.15E-06	0
Na-22	5.39E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.39E-10	0
Np-237	2.10E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.10E-11	0
Pb-210	7.63E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.63E-11	0
Pm-147	7.93E-28	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.93E-28	0
Pu-238	2.77E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		

2.77E-12	0														
Pu-239	2.78E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.78E-09	0														
Pu-240	1.21E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.21E-15	0														
Pu-241	6.12E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
6.12E-12	0														
Pu-242	4.01E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.01E-17	0														
Ra-226	1.94E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.94E-04	0														
Ra-228	3.11E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.11E-04	0														
Ru-106	4.89E-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	
4.89E-19	0														
Sb-125	1.11E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.11E-11	0														
Sm-151	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Sn-121m	4.59E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.59E-17	0														
Sn-126	4.38E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.38E-07	0														
Sr-90	9.54E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
9.54E-08	0														
Th-228	2.22E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.22E-08	0														
Th-230	2.29E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.29E-05	0														
Th-232	1.59E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.59E-06	0														
U-233	3.19E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.19E-09	0														

```
 U-234    6.58E-10   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
6.58E-10   0
 U-235    1.24E-07   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
1.24E-07   0
 U-236    2.04E-14   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
2.04E-14   0
 U-238    4.35E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.35E-06   0
 ÕÕÕÕÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
 Total    7.19E-02 100  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
7.19E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  76
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
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
 Nuclide    Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %
Dose    %
 fffffff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff
ffffffff fff
 Ac-227   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
0.00E+00   0
 Al-26    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
```

0.00E+00	0															
Am-241	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		
0.00E+00	0															
Cf-249	0.00E+00	0	0.00E+00	0	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	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

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
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
Total 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 77
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
0 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)
0 Ground Inhalation Radon Plant Meat Milk Soil
All Pathways*
Radio- *fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff*
fffffffffff
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 1.00E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.00E-07 0
Al-26 6.90E-02 97 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

6.90E-02	97														
Am-241	1.77E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.77E-10	0														
Cf-249	3.85E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.85E-10	0														
Cf-251	3.50E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.50E-12	0														
Cf-252	3.08E-25	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.08E-25	0														
Cl-36	8.05E-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	
8.05E-13	0														
Co-60	4.82E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.82E-06	0														
Cs-134	3.74E-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	
3.74E-16	0														
Cs-137	1.65E-03	2	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.65E-03	2														
Eu-154	1.16E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.16E-08	0														
Eu-155	9.77E-18	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
9.77E-18	0														
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Ho-166m	2.13E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.13E-06	0														
Na-22	4.47E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.47E-12	0														
Np-237	2.11E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.11E-11	0														
Pb-210	4.37E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.37E-11	0														
Pm-147	6.87E-30	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
6.87E-30	0														

Pu-238	3.68E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.68E-11
Pu-239	2.79E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.79E-09
Pu-240	1.39E-15	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.39E-15
Pu-241	9.55E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.55E-12
Pu-242	9.75E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	9.75E-17
Ra-226	1.93E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.93E-04
Ra-228	3.74E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.74E-05
Ru-106	1.83E-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	0	1.83E-24
Sb-125	1.08E-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	1.08E-13
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
Sn-121m	3.68E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.68E-17
Sn-126	4.39E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.39E-07
Sr-90	6.24E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.24E-08
Th-228	3.28E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.28E-11
Th-230	5.59E-05	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.59E-05
Th-232	2.27E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.27E-06
U-233	7.79E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	

```
7.79E-09   0
 U-234    3.91E-09   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
3.91E-09   0
 U-235    1.29E-07   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
1.29E-07   0
 U-236    9.50E-14   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
9.50E-14   0
 U-238    4.35E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.35E-06   0
 ÕÕÕÕÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
 Total    7.09E-02 100  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
7.09E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  78
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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                                          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
 Nuclide    Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %
Dose    %
 fffffff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff
ffffffff fff
 Ac-227   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
0.00E+00   0
```

Al-26	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Am-241	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cf-249	0.00E+00	0	0.00E+00	0	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

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
 õõõõõõõ  õõõõõõõõ õõõ  õõõõõõõõ õõõ  õõõõõõõõ õõõ  õõõõõõõõ õõõ  õõõõõõõõ õõõ  õõõõõõõõ õõõ  õõõõõõõõ õõõ
õõõõõõõõ õõõ
 Total    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
0.00E+00   0
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  79
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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-   ƒƒƒƒƒƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒƒƒƒƒ
ƒƒƒƒƒƒƒƒƒƒƒƒ
 Nuclide    Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %
Dose    %
 ƒƒƒƒƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ  ƒƒƒƒƒƒƒƒ ƒƒƒ
ƒƒƒƒƒƒƒƒ ƒƒƒ
 Ac-227   1.09E-08   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
1.09E-08   0
```

Al-26	6.96E-02	99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.96E-02	99
Am-241	5.59E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.59E-10	0
Cf-249	3.40E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.40E-10	0
Cf-251	3.38E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.38E-12	0
Cf-252	1.11E-24	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.11E-24	0
Cl-36	4.92E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.92E-13	0
Co-60	4.63E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.63E-10	0
Cs-134	2.28E-26	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.28E-26	0
Cs-137	3.30E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.30E-04	0
Eu-154	4.73E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.73E-11	0
Eu-155	5.64E-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	5.64E-22	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ho-166m	2.07E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.07E-06	0
Na-22	3.59E-20	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.59E-20	0
Np-237	2.13E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.13E-11	0
Pb-210	5.02E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.02E-12	0
Pm-147	6.54E-38	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		

6.54E-38	0														
Pu-238	1.15E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.15E-09	0														
Pu-239	2.84E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.84E-09	0														
Pu-240	4.58E-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	
4.58E-15	0														
Pu-241	4.07E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.07E-11	0														
Pu-242	3.22E-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	
3.22E-16	0														
Ra-226	1.89E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.89E-04	0														
Ra-228	8.16E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
8.16E-09	0														
Ru-106	1.40E-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	
1.40E-45	0														
Sb-125	1.62E-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	
1.62E-21	0														
Sm-151	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Sn-121m	1.56E-17	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.56E-17	0														
Sn-126	4.44E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.44E-07	0														
Sr-90	1.19E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.19E-08	0														
Th-228	3.19E-22	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.19E-22	0														
Th-230	1.83E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.83E-04	0														
Th-232	2.38E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.38E-06	0														

```
 U-233    2.57E-08   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
2.57E-08   0
 U-234    4.22E-08   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.22E-08   0
 U-235    1.62E-07   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
1.62E-07   0
 U-236    4.30E-13   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.30E-13   0
 U-238    4.35E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.35E-06   0
 ÕÕÕÕÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
 Total    7.03E-02 100  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
7.03E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  80
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 Nuclide    Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %     Dose    %
Dose    %
 fffffff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff
ffffffff fff
 Ac-227   0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
```

0.00E+00	0															
Al-26	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		
0.00E+00	0															
Am-241	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		
0.00E+00	0															
Cf-249	0.00E+00	0	0.00E+00	0	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	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

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
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕÕ ÕÕÕ
Total 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 81
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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 Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)
0 Ground Inhalation Radon Plant Meat Milk Soil
All Pathways*
Radio- *fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff fffffffffff*
fffffffffff
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 1.94E-11 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0

1.94E-11	0														
Al-26	7.14E-02	99	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
7.14E-02	99														
Am-241	1.49E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.49E-09	0														
Cf-249	2.37E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.37E-10	0														
Cf-251	3.05E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.05E-12	0														
Cf-252	3.50E-24	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.50E-24	0														
Cl-36	1.20E-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	
1.20E-13	0														
Co-60	1.55E-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	
1.55E-21	0														
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Cs-137	3.34E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
3.34E-06	0														
Eu-154	7.00E-18	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
7.00E-18	0														
Eu-155	4.38E-34	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
4.38E-34	0														
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
0.00E+00	0														
Ho-166m	1.91E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
1.91E-06	0														
Na-22	2.68E-43	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.68E-43	0														
Np-237	2.20E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	
2.20E-11	0														
Pb-210	1.03E-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	
1.03E-14	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	2.24E-08	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.24E-08	0
Pu-239	2.96E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.96E-09	0
Pu-240	3.63E-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	3.63E-14	0
Pu-241	1.27E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.27E-10	0
Pu-242	9.79E-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	9.79E-16	0
Ra-226	1.78E-04	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.78E-04	0
Ra-228	2.82E-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	2.82E-19	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	7.01E-44	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.01E-44	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	1.34E-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	1.34E-18	0
Sn-126	4.58E-07	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.58E-07	0
Sr-90	1.06E-10	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.06E-10	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	5.38E-04	1	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.38E-04	1
Th-232	2.43E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0		

2.43E-06 0
U-233 7.72E-08 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
7.72E-08 0
U-234 3.73E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
3.73E-07 0
U-235 2.74E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
2.74E-07 0
U-236 1.40E-12 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.40E-12 0
U-238 4.36E-06 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
4.36E-06 0
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕÕ ÕÕÕ
Total 7.21E-02 100 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
7.21E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 82
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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 From releases to ground water and to surface water
0 Ground Fish Radon Plant Meat Milk Soil
Water
Radio- *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff* *fffffffffff*
fffffffffff
Nuclide Dose % Dose % Dose % Dose % Dose % Dose % Dose %
Dose %
fffffff *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff* *ffffffff fff*
ffffffff fff

Ac-227	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Al-26	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Am-241	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cf-249	0.00E+00	0	0.00E+00	0	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

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
 ÕÕÕÕÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
 Total    0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
0.00E+00   0
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  83
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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    %
 fffffff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff  ffffffff fff
ffffffff fff
```

Ac-227	4.59E-21	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.59E-21	0
Al-26	7.80E-02	98	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.80E-02	98
Am-241	3.53E-09	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.53E-09	0
Cf-249	6.75E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	6.75E-11	0
Cf-251	2.16E-12	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.16E-12	0
Cf-252	1.31E-23	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.31E-23	0
Cl-36	8.75E-16	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.75E-16	0
Co-60	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-134	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Cs-137	3.49E-13	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	3.49E-13	0
Eu-154	8.74E-42	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	8.74E-42	0
Eu-155	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
H-3	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Ho-166m	1.42E-06	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.42E-06	0
Na-22	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0
Np-237	2.49E-11	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.49E-11	0
Pb-210	4.08E-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		

4.08E-24 0
Pm-147 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
Pu-238 3.89E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
3.89E-07 0
Pu-239 3.43E-09 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
3.43E-09 0
Pu-240 4.18E-13 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
4.18E-13 0
Pu-241 3.16E-10 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
3.16E-10 0
Pu-242 3.46E-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
3.46E-15 0
Ra-226 1.44E-04 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.44E-04 0
Ra-228 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
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 2.46E-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
2.46E-22 0
Sn-126 5.09E-07 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
5.09E-07 0
Sr-90 7.11E-18 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
7.11E-18 0
Th-228 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
0.00E+00 0
Th-230 1.69E-03 2 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0 0.00E+00 0
1.69E-03 2

```
 Th-232   2.63E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
2.63E-06   0
 U-233    2.61E-07   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
2.61E-07   0
 U-234    3.96E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
3.96E-06   0
 U-235    7.04E-07   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
7.04E-07   0
 U-236    4.92E-12   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.92E-12   0
 U-238    4.41E-06   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
4.41E-06   0
 ÕÕÕÕÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ  ÕÕÕÕÕÕÕÕ ÕÕÕ
ÕÕÕÕÕÕÕÕ ÕÕÕ
 Total    7.99E-02 100  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0  0.00E+00   0
7.99E-02 100
0*Sum of dose from all releases and from primary contamination.
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  84
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 ffffffffff ffffffffff fffffffff  fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 Ac-227+D   Ac-227+D   1.000E+00  1.106E-07 1.072E-07 9.146E-08 7.564E-08 4.278E-08 4.662E-09 8.286E-12
1.961E-21
0Al-26      Al-26      1.000E+00  8.996E-05 8.998E-05 9.003E-05 9.010E-05 9.031E-05 9.112E-05 9.346E-05
1.022E-04
```

```
0Am-241     Am-241     1.000E+00  6.987E-22 6.979E-22 6.942E-22 6.898E-22 6.768E-22 6.286E-22 5.088E-22
2.428E-22
 Am-241     Np-237+D   1.000E+00  2.098E-15 6.290E-15 2.717E-14 5.206E-14 1.256E-13 3.967E-13 1.056E-12
2.489E-12
 Am-241     U-233      1.000E+00  2.399E-25 1.518E-24 2.701E-23 9.945E-23 5.878E-22 6.227E-21 5.208E-20
4.736E-19
 Am-241     Th-229+D   1.000E+00  6.779E-24 8.534E-23 5.979E-21 4.214E-20 6.071E-19 2.122E-17 5.326E-16
1.615E-14
 Am-241     %DSR(j)               2.098E-15 6.290E-15 2.717E-14 5.206E-14 1.256E-13 3.967E-13 1.057E-12
2.505E-12
0Cf-249     Cf-249     5.200E-09  6.520E-16 6.509E-16 6.450E-16 6.381E-16 6.179E-16 5.449E-16 3.806E-16
1.083E-16
0Cf-249     Cf-249     1.000E+00  1.254E-07 1.252E-07 1.240E-07 1.227E-07 1.188E-07 1.048E-07 7.318E-08
2.083E-08
 Cf-249     Cm-245     1.000E+00  2.432E-16 7.293E-16 3.149E-15 6.028E-15 1.451E-14 4.545E-14 1.185E-13
2.668E-13
 Cf-249     Pu-241     1.000E+00  1.616E-23 1.010E-22 1.665E-21 5.605E-21 2.593E-20 1.369E-19 4.206E-19
1.007E-18
 Cf-249     Am-241     1.000E+00  2.277E-31 2.838E-30 1.879E-28 1.238E-27 1.477E-26 2.945E-25 3.020E-24
2.486E-23
 Cf-249     Np-237+D   1.000E+00  3.093E-25 7.383E-24 1.877E-21 2.391E-20 7.175E-19 5.097E-17 1.672E-15
4.565E-14
 Cf-249     U-233      1.000E+00  2.424E-34 7.650E-34 7.608E-31 1.864E-29 1.397E-27 3.512E-25 3.806E-23
4.048E-21
 Cf-249     Th-229+D   1.000E+00  1.669E-26 9.723E-29 4.011E-27 1.304E-26 7.384E-25 6.438E-22 2.200E-19
8.057E-17
 Cf-249     %DSR(j)               1.254E-07 1.252E-07 1.240E-07 1.227E-07 1.188E-07 1.048E-07 7.318E-08
2.084E-08
0Cf-249     Cf-249     2.450E-05  3.072E-12 3.067E-12 3.039E-12 3.007E-12 2.911E-12 2.567E-12 1.793E-12
5.105E-13
 Cf-249     Cm-245     2.450E-05  5.960E-21 1.787E-20 7.714E-20 1.477E-19 3.556E-19 1.114E-18 2.902E-18
6.537E-18
 Cf-249     Pu-241+D   2.450E-05  1.531E-21 9.560E-21 1.576E-19 5.305E-19 2.452E-18 1.290E-17 3.927E-17
```

```
9.096E-17
 Cf-249     Np-237+D   2.450E-05  2.089E-26 2.604E-25 1.724E-23 1.136E-22 1.358E-21 2.731E-20 2.898E-19
2.705E-18
 Cf-249     U-233      2.450E-05  1.444E-36 3.432E-35 8.747E-33 1.116E-31 3.371E-30 2.457E-28 8.706E-27
3.102E-25
 Cf-249     Th-229+D   2.450E-05  3.850E-31 2.243E-33 1.095E-30 2.899E-29 2.176E-27 5.539E-25 6.233E-23
7.536E-21
 Cf-249     %DSR(j)               3.072E-12 3.067E-12 3.039E-12 3.007E-12 2.911E-12 2.567E-12 1.793E-12
5.106E-13
0Cf-251     Cf-251     1.000E+00  2.650E-10 2.649E-10 2.642E-10 2.634E-10 2.609E-10 2.514E-10 2.262E-10
1.562E-10
 Cf-251     Cm-247+D   1.000E+00  3.090E-15 9.270E-15 4.013E-14 7.707E-14 1.874E-13 6.086E-13 1.749E-12
5.148E-12
 Cf-251     Am-243+D   1.000E+00  3.965E-22 2.510E-21 4.472E-20 1.649E-19 9.803E-19 1.061E-17 9.401E-17
1.020E-15
 Cf-251     Pu-239     1.000E+00  1.890E-30 2.377E-29 1.668E-27 1.178E-26 1.708E-25 6.112E-24 1.638E-22
6.140E-21
 Cf-251     U-235+D    1.000E+00  1.190E-35 1.202E-35 5.064E-33 6.811E-32 2.404E-30 2.837E-28 2.283E-26
2.884E-24
 Cf-251     Pa-231     1.000E+00  0.000E+00 3.667E-35 1.321E-34 2.258E-34 1.560E-33 6.914E-31 1.660E-28
6.940E-26
 Cf-251     Ac-227+D   1.000E+00  0.000E+00 8.963E-34 2.376E-33 1.245E-33 0.000E+00 8.675E-30 3.688E-27
2.035E-24
 Cf-251     %DSR(j)               2.650E-10 2.649E-10 2.642E-10 2.634E-10 2.611E-10 2.520E-10 2.279E-10
1.614E-10
0Cf-252     Cf-252     3.092E-02  2.957E-18 2.274E-18 6.126E-19 1.269E-19 1.128E-21 1.185E-29 0.000E+00
0.000E+00
0Cf-252     Cf-252     8.005E-02  7.654E-18 5.888E-18 1.586E-18 3.286E-19 2.921E-21 3.068E-29 0.000E+00
0.000E+00
 Cf-252     Cm-248     8.005E-02  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00
 Cf-252     %DSR(j)               7.654E-18 5.888E-18 1.586E-18 3.286E-19 2.921E-21 3.068E-29 0.000E+00
0.000E+00
```

1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 85
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
fffffffff	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Cf-252	Cf-252	1.111E-03	1.063E-19	8.174E-20	2.202E-20	4.562E-21	4.055E-23	4.259E-31	0.000E+00	0.000E+00
Cf-252	Cm-248	1.111E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cf-252	Pu-244	1.111E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cf-252	%DSR(j)		1.063E-19	8.174E-20	2.202E-20	4.562E-21	4.055E-23	4.259E-31	0.000E+00	0.000E+00
0Cf-252	Cf-252	4.395E-08	4.203E-24	3.233E-24	8.708E-25	1.804E-25	1.604E-27	1.684E-35	0.000E+00	0.000E+00
Cf-252	Cm-248	4.395E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Cf-252	Pu-244+D	4.395E-08	1.697E-28	1.004E-27	1.252E-26	3.270E-26	9.904E-26	3.626E-25	1.147E-24	4.286E-24
Cf-252	Pu-240	4.395E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	9.280E-39	1.021E-37
Cf-252	%DSR(j)		4.203E-24	3.234E-24	8.833E-25	2.131E-25	1.006E-25	3.626E-25	1.147E-24	4.286E-24
0Cf-252	Cf-252	8.879E-01	8.490E-17	6.531E-17	1.759E-17	3.645E-18	3.240E-20	3.403E-28	0.000E+00	0.000E+00
Cf-252	Cm-248	8.879E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	

```
0.000E+00
 Cf-252     Pu-244+D   8.879E-01  3.429E-21 2.028E-20 2.530E-19 6.606E-19 2.001E-18 7.325E-18 2.317E-17
8.658E-17
 Cf-252     Pu-240     8.879E-01  3.712E-38 4.826E-37 2.556E-35 1.374E-34 1.128E-33 1.488E-32 1.498E-31
2.148E-30
 Cf-252     U-236      8.879E-01  0.000E+00 0.000E+00 0.000E+00 0.000E+00 1.856E-38 6.774E-37 2.064E-35
9.520E-34
 Cf-252     Th-232     8.879E-01  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00
 Cf-252     Ra-228+D   8.879E-01  2.784E-38 3.712E-38 1.856E-38 9.280E-38 8.816E-37 2.449E-34 2.688E-32
3.937E-30
 Cf-252     Th-228+D   8.879E-01  4.362E-37 4.547E-37 0.000E+00 1.299E-37 1.073E-35 4.920E-33 5.813E-31
8.535E-29
 Cf-252     %DSR(j)               8.491E-17 6.533E-17 1.785E-17 4.305E-18 2.033E-18 7.325E-18 2.317E-17
8.658E-17
0Cl-36      Cl-36      1.000E+00  3.563E-12 3.538E-12 3.415E-12 3.274E-12 2.885E-12 1.763E-12 4.316E-13
3.135E-15
0Co-60      Co-60      1.000E+00  5.217E-05 4.571E-05 2.361E-05 1.069E-05 9.912E-07 9.534E-11 3.183E-22
0.000E+00
0Cs-134     Cs-134     1.000E+00  3.400E-06 2.430E-06 4.533E-07 6.041E-08 1.429E-10 8.698E-21 0.000E+00
0.000E+00
0Cs-137+D   Cs-137+D   1.000E+00  1.076E-06 1.051E-06 9.374E-07 8.167E-07 5.402E-07 1.083E-07 1.096E-09
1.144E-16
0Eu-154     Eu-154     1.000E+00  1.240E-05 1.146E-05 7.734E-06 4.825E-06 1.172E-06 4.770E-09 7.061E-16
8.812E-40
0Eu-155     Eu-155     1.000E+00  7.339E-14 6.385E-14 3.180E-14 1.378E-14 1.121E-15 6.469E-20 5.023E-32
0.000E+00
0H-3        H-3        1.000E+00  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00
0Ho-166m    Ho-166m    1.000E+00  4.300E-06 4.299E-06 4.290E-06 4.279E-06 4.247E-06 4.125E-06 3.795E-06
2.835E-06
0Na-22      Na-22      1.000E+00  1.174E-05 8.993E-06 2.376E-06 4.811E-07 3.991E-09 3.205E-17 2.390E-40
0.000E+00
```

0Np-237+D Np-237+D 1.000E+00 1.296E-08 1.296E-08 1.297E-08 1.298E-08 1.302E-08 1.316E-08 1.358E-08
1.514E-08
Np-237+D U-233 1.000E+00 1.972E-18 5.917E-18 2.566E-17 4.939E-17 1.208E-16 4.021E-16 1.237E-15
4.554E-15
Np-237+D Th-229+D 1.000E+00 7.518E-17 4.760E-16 8.484E-15 3.131E-14 1.864E-13 2.030E-12 1.831E-11
2.095E-10
Np-237 %DSR(j) 1.296E-08 1.296E-08 1.297E-08 1.298E-08 1.302E-08 1.317E-08 1.360E-08
1.534E-08
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 86
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
fffffffff	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Pb-210+D	Pb-210+D	1.000E+00	5.184E-12	5.027E-12	4.308E-12	3.580E-12	2.054E-12	2.367E-13	4.935E-16	2.041E-25
Pb-210+D	Po-210	1.000E+00	1.686E-11	2.989E-11	2.793E-11	2.320E-11	1.329E-11	1.524E-12	3.129E-15	1.228E-24
Pb-210	%DSR(j)		2.205E-11	3.492E-11	3.224E-11	2.678E-11	1.535E-11	1.761E-12	3.623E-15	1.432E-24
0Pm-147	Pm-147	1.000E+00	1.372E-18	1.054E-18	2.818E-19	5.790E-20	5.016E-22	4.770E-30	0.000E+00	0.000E+00
Pm-147	Sm-147	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pm-147	%DSR(j)		1.372E-18	1.054E-18	2.818E-19	5.790E-20	5.016E-22	4.770E-30	0.000E+00	0.000E+00
0Pu-238	Pu-238	1.840E-09	2.047E-26	2.032E-26	1.956E-26	1.870E-26	1.632E-26	9.613E-27	2.120E-27	

```
1.068E-29
0Pu-238     Pu-238     1.000E+00  1.113E-17 1.104E-17 1.063E-17 1.016E-17 8.868E-18 5.225E-18 1.152E-18
5.806E-21
 Pu-238     U-234      1.000E+00  1.350E-22 4.037E-22 1.718E-21 3.233E-21 7.397E-21 1.927E-20 3.339E-20
4.228E-20
 Pu-238     Th-230     1.000E+00  4.374E-27 2.764E-26 4.869E-25 1.772E-24 1.011E-23 9.450E-23 5.940E-22
3.340E-21
 Pu-238     Ra-226+D   1.000E+00  2.926E-20 3.678E-19 2.556E-17 1.784E-16 2.497E-15 7.843E-14 1.521E-12
2.647E-11
 Pu-238     Pb-210+D   1.000E+00  2.123E-29 5.077E-28 1.306E-25 1.684E-24 5.221E-23 3.942E-21 1.252E-19
2.847E-18
 Pu-238     Po-210     1.000E+00  3.600E-29 1.332E-27 6.156E-25 9.115E-24 3.107E-22 2.449E-20 7.767E-19
1.682E-17
 Pu-238     %DSR(j)               1.115E-17 1.141E-17 3.620E-17 1.886E-16 2.506E-15 7.843E-14 1.521E-12
2.647E-11
0Pu-239     Pu-239     1.000E+00  3.002E-13 3.003E-13 3.006E-13 3.010E-13 3.021E-13 3.065E-13 3.194E-13
3.691E-13
 Pu-239     U-235+D    1.000E+00  2.768E-19 8.304E-19 3.601E-18 6.932E-18 1.696E-17 5.649E-17 1.742E-16
6.465E-16
 Pu-239     Pa-231     1.000E+00  1.261E-23 7.986E-23 1.424E-21 5.259E-21 3.136E-20 3.437E-19 3.159E-18
3.857E-17
 Pu-239     Ac-227+D   1.000E+00  3.873E-24 4.845E-23 3.276E-21 2.212E-20 2.823E-19 6.729E-18 8.893E-17
1.231E-15
 Pu-239     %DSR(j)               3.002E-13 3.003E-13 3.006E-13 3.010E-13 3.021E-13 3.066E-13 3.197E-13
3.710E-13
0Pu-240     Pu-240     4.950E-08  2.472E-26 2.473E-26 2.476E-26 2.480E-26 2.492E-26 2.541E-26 2.684E-26
3.252E-26
0Pu-240     Pu-240     1.000E+00  4.994E-19 4.995E-19 5.002E-19 5.010E-19 5.035E-19 5.133E-19 5.422E-19
6.570E-19
 Pu-240     U-236      1.000E+00  3.542E-25 1.063E-24 4.610E-24 8.877E-24 2.175E-23 7.277E-23 2.274E-22
8.834E-22
 Pu-240     Th-232     1.000E+00  5.399E-36 3.419E-35 6.101E-34 2.255E-33 1.348E-32 1.492E-31 1.411E-30
1.903E-29
```

```
 Pu-240     Ra-228+D   1.000E+00  8.998E-26 1.106E-24 6.781E-23 4.116E-22 4.102E-21 6.322E-20 6.382E-19
7.679E-18
 Pu-240     Th-228+D   1.000E+00  1.569E-25 3.499E-24 6.231E-22 5.491E-21 7.484E-20 1.348E-18 1.407E-17
1.674E-16
 Pu-240     %DSR(j)               4.994E-19 4.995E-19 5.009E-19 5.069E-19 5.825E-19 1.924E-18 1.525E-17
1.758E-16
0Pu-241     Pu-241     1.000E+00  2.170E-17 2.069E-17 1.629E-17 1.222E-17 5.168E-18 1.817E-19 1.274E-23
3.672E-38
 Pu-241     Am-241     1.000E+00  5.504E-25 1.618E-24 6.242E-24 1.048E-23 1.768E-23 2.146E-23 1.754E-23
8.367E-24
 Pu-241     Np-237+D   1.000E+00  1.248E-18 7.793E-18 1.285E-16 4.328E-16 2.005E-15 1.064E-14 3.325E-14
8.228E-14
 Pu-241     U-233      1.000E+00  1.060E-28 1.322E-27 8.755E-26 5.774E-25 6.918E-24 1.404E-22 1.527E-21
1.529E-20
 Pu-241     Th-229+D   1.000E+00  2.405E-27 5.808E-26 1.480E-23 1.888E-22 5.699E-21 4.148E-19 1.465E-17
5.099E-16
 Pu-241     %DSR(j)               2.295E-17 2.848E-17 1.448E-16 4.451E-16 2.010E-15 1.064E-14 3.326E-14
8.279E-14
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  87
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 ffffffffff ffffffffff fffffffff  fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 Pu-241+D   Pu-241+D   2.450E-05  2.055E-15 1.959E-15 1.542E-15 1.157E-15 4.887E-16 1.712E-17 1.189E-21
3.317E-36
 Pu-241+D   Np-237+D   2.450E-05  5.051E-20 1.486E-19 5.744E-19 9.679E-19 1.653E-18 2.155E-18 2.241E-18
```

```
2.498E-18
 Pu-241+D   U-233      2.450E-05  5.802E-30 3.626E-29 5.996E-28 2.026E-27 9.484E-27 5.278E-26 1.902E-25
7.367E-25
 Pu-241+D   Th-229+D   2.450E-05  1.644E-28 2.050E-27 1.360E-25 8.983E-25 1.082E-23 2.250E-22 2.635E-21
3.320E-20
 Pu-241     %DSR(j)              2.055E-15 1.959E-15 1.542E-15 1.158E-15 4.904E-16 1.928E-17 2.245E-18
2.531E-18
0Pu-242     Pu-242     5.500E-06  7.093E-24 7.095E-24 7.108E-24 7.124E-24 7.171E-24 7.357E-24 7.916E-24
1.023E-23
0Pu-242     Pu-242     5.400E-05  6.964E-23 6.966E-23 6.979E-23 6.994E-23 7.041E-23 7.223E-23 7.773E-23
1.004E-22
 Pu-242     U-238      5.400E-05  0.000E+00 0.000E+00 5.605E-45 5.605E-45 1.682E-44 5.605E-44 1.836E-43
9.949E-43
 Pu-242     %DSR(j)              6.964E-23 6.966E-23 6.979E-23 6.994E-23 7.041E-23 7.223E-23 7.773E-23
1.004E-22
0Pu-242     Pu-242     9.999E-01  1.290E-18 1.290E-18 1.292E-18 1.295E-18 1.304E-18 1.338E-18 1.439E-18
1.860E-18
 Pu-242     U-238+D    9.999E-01  6.303E-18 1.891E-17 8.197E-17 1.577E-16 3.854E-16 1.277E-15 3.884E-15
1.372E-14
 Pu-242     U-234      9.999E-01  7.891E-33 4.997E-32 8.916E-31 3.294E-30 1.968E-29 2.173E-28 2.039E-27
2.676E-26
 Pu-242     Th-230     9.999E-01  1.891E-37 2.390E-36 1.676E-34 1.185E-33 1.725E-32 6.279E-31 1.765E-29
7.768E-28
 Pu-242     Ra-226+D   9.999E-01  5.571E-29 4.341E-28 6.735E-27 8.864E-26 3.135E-24 3.688E-22 2.939E-20
3.577E-18
 Pu-242     Pb-210+D   9.999E-01  5.504E-36 4.136E-35 3.643E-35 6.393E-34 5.339E-32 1.562E-29 2.156E-27
3.645E-25
 Pu-242     Po-210     9.999E-01  6.383E-35 3.913E-34 3.180E-34 3.423E-33 3.122E-31 9.642E-29 1.334E-26
2.151E-24
 Pu-242     %DSR(j)              7.592E-18 2.020E-17 8.327E-17 1.590E-16 3.867E-16 1.279E-15 3.886E-15
1.373E-14
0Ra-226+D   Ra-226+D   1.000E+00  5.066E-05 5.065E-05 5.057E-05 5.048E-05 5.020E-05 4.915E-05 4.627E-05
3.744E-05
```

```
 Ra-226+D   Pb-210+D   1.000E+00  8.087E-14 2.395E-13 9.628E-13 1.695E-12 3.222E-12 4.990E-12 5.023E-12
4.363E-12
 Ra-226+D   Po-210     1.000E+00  2.292E-13 1.019E-12 5.663E-12 1.040E-11 2.028E-11 3.156E-11 3.132E-11
2.581E-11
 Ra-226     %DSR(j)               5.066E-05 5.065E-05 5.057E-05 5.048E-05 5.020E-05 4.915E-05 4.627E-05
3.744E-05
0Ra-228+D   Ra-228+D   1.000E+00  9.457E-06 8.384E-06 4.592E-06 2.230E-06 2.554E-07 5.582E-11 1.945E-21
0.000E+00
 Ra-228+D   Th-228+D   1.000E+00  3.453E-05 8.523E-05 1.234E-04 7.209E-05 8.671E-06 1.892E-09 6.546E-20
0.000E+00
 Ra-228     %DSR(j)               4.398E-05 9.362E-05 1.280E-04 7.432E-05 8.927E-06 1.948E-09 6.740E-20
0.000E+00
0Ru-106+D   Ru-106+D   1.000E+00  2.605E-07 1.301E-07 4.050E-09 6.292E-11 2.349E-16 1.803E-37 0.000E+00
0.000E+00
0Sb-125     Sb-125     7.720E-01  3.474E-07 2.686E-07 7.421E-08 1.585E-08 1.545E-10 2.321E-18 1.012E-40
0.000E+00
0Sb-125     Sb-125     2.280E-01  1.026E-07 7.932E-08 2.192E-08 4.682E-09 4.563E-11 6.855E-19 2.854E-41
0.000E+00
 Sb-125     Te-125m    2.280E-01  3.078E-27 3.648E-27 1.017E-27 2.178E-28 2.141E-30 3.324E-38 0.000E+00
0.000E+00
 Sb-125     %DSR(j)               1.026E-07 7.932E-08 2.192E-08 4.682E-09 4.563E-11 6.855E-19 2.854E-41
0.000E+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
0Sn-121m+D  Sn-121m+D  1.000E+00  1.061E-16 1.048E-16 9.852E-17 9.152E-17 7.337E-17 3.105E-17 2.662E-18
4.907E-22
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  88
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
fffffffff	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Sn-126+D	Sn-126+D	1.000E+00	3.586E-06	3.586E-06	3.589E-06	3.592E-06	3.602E-06	3.641E-06	3.753E-06	4.173E-06
0Sr-90+D	Sr-90+D	1.000E+00	2.944E-10	2.875E-10	2.555E-10	2.218E-10	1.450E-10	2.779E-11	2.476E-13	1.654E-20
0Th-228+D	Th-228+D	1.000E+00	1.916E-04	1.334E-04	2.183E-05	2.486E-06	3.672E-09	3.572E-20	0.000E+00	0.000E+00
0Th-230	Th-230	1.000E+00	9.143E-16	9.145E-16	9.160E-16	9.177E-16	9.230E-16	9.438E-16	1.006E-15	1.256E-15
Th-230	Ra-226+D	1.000E+00	1.097E-08	3.292E-08	1.426E-07	2.741E-07	6.677E-07	2.186E-06	6.424E-06	2.022E-05
Th-230	Pb-210+D	1.000E+00	1.320E-17	8.289E-17	1.406E-15	4.894E-15	2.468E-14	1.599E-13	6.180E-13	2.263E-12
Th-230	Po-210	1.000E+00	2.992E-17	2.871E-16	7.623E-15	2.871E-14	1.522E-13	1.004E-12	3.845E-12	1.338E-11
Th-230	%DSR(j)		1.097E-08	3.292E-08	1.426E-07	2.741E-07	6.677E-07	2.186E-06	6.424E-06	2.022E-05
0Th-232	Th-232	1.000E+00	1.968E-17	1.968E-17	1.972E-17	1.976E-17	1.989E-17	2.041E-17	2.194E-17	2.830E-17
Th-232	Ra-228+D	1.000E+00	5.784E-07	1.652E-06	5.451E-06	7.822E-06	9.823E-06	1.018E-05	1.048E-05	1.160E-05
Th-232	Th-228+D	1.000E+00	1.638E-06	9.139E-06	8.261E-05	1.535E-04	2.198E-04	2.303E-04	2.354E-04	2.543E-04
Th-232	%DSR(j)		2.217E-06	1.079E-05	8.806E-05	1.613E-04	2.296E-04	2.404E-04	2.459E-04	2.659E-04
0U-233	U-233	1.000E+00	9.019E-13	9.019E-13	9.024E-13	9.029E-13	9.044E-13	9.104E-13	9.277E-13	9.908E-13
U-233	Th-229+D	1.000E+00	4.575E-11	1.373E-10	5.949E-10	1.144E-09	2.793E-09	9.216E-09	2.767E-08	9.355E-08

U-233	%DSR(j)		4.665E-11	1.382E-10	5.958E-10	1.145E-09	2.794E-09	9.217E-09	2.768E-08
9.355E-08									
0U-234	U-234	1.000E+00	9.551E-17	9.552E-17	9.562E-17	9.573E-17	9.606E-17	9.735E-17	1.012E-16
1.157E-16									
U-234	Th-230	1.000E+00	4.115E-21	1.235E-20	5.357E-20	1.032E-19	2.529E-19	8.479E-19	2.665E-18
1.057E-17									
U-234	Ra-226+D	1.000E+00	3.712E-14	2.350E-13	4.187E-12	1.544E-11	9.174E-11	9.914E-10	8.751E-09
9.298E-08									
U-234	Pb-210+D	1.000E+00	3.316E-23	4.149E-22	2.807E-20	1.897E-19	2.426E-18	5.800E-17	7.616E-16
1.008E-14									
U-234	Po-210	1.000E+00	6.422E-23	1.233E-21	1.414E-19	1.067E-18	1.469E-17	3.621E-16	4.729E-15
5.955E-14									
U-234	%DSR(j)		3.722E-14	2.351E-13	4.187E-12	1.544E-11	9.174E-11	9.914E-10	8.751E-09
9.298E-08									
0U-235+D	U-235+D	1.000E+00	5.620E-10	5.620E-10	5.623E-10	5.626E-10	5.636E-10	5.674E-10	5.785E-10
6.190E-10									
U-235+D	Pa-231	1.000E+00	3.408E-14	1.023E-13	4.434E-13	8.533E-13	2.087E-12	6.933E-12	2.123E-11
7.693E-11									
U-235+D	Ac-227+D	1.000E+00	1.409E-14	8.846E-14	1.499E-12	5.212E-12	2.621E-11	1.691E-10	6.590E-10
2.533E-09									
U-235	%DSR(j)		5.620E-10	5.622E-10	5.643E-10	5.687E-10	5.919E-10	7.435E-10	1.259E-09
3.229E-09									
0U-236	U-236	1.000E+00	2.393E-17	2.393E-17	2.396E-17	2.398E-17	2.407E-17	2.441E-17	2.542E-17
2.927E-17									
U-236	Th-232	1.000E+00	4.854E-28	1.457E-27	6.321E-27	1.218E-26	2.987E-26	1.004E-25	3.184E-25
1.301E-24									
U-236	Ra-228+D	1.000E+00	1.085E-17	6.648E-17	9.895E-16	2.996E-15	1.113E-14	4.600E-14	1.479E-13
5.290E-13									
U-236	Th-228+D	1.000E+00	2.307E-17	2.644E-16	1.121E-14	4.708E-14	2.224E-13	1.009E-12	3.292E-12
1.157E-11									
U-236	%DSR(j)		5.785E-17	3.548E-16	1.222E-14	5.010E-14	2.335E-13	1.055E-12	3.440E-12
1.210E-11									
0U-238	U-238	5.400E-05	3.254E-36	3.256E-36	3.266E-36	3.278E-36	3.314E-36	3.458E-36	3.904E-36

5.970E-36
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 89
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
fffffffff	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
U-238+D	U-238+D	9.999E-01	8.125E-08	8.125E-08	8.126E-08	8.126E-08	8.128E-08	8.135E-08	8.155E-08	8.227E-08
U-238+D	U-234	9.999E-01	1.354E-22	4.062E-22	1.762E-21	3.392E-21	8.306E-21	2.774E-20	8.621E-20	3.286E-19
U-238+D	Th-230	9.999E-01	4.383E-27	2.775E-26	4.952E-25	1.829E-24	1.093E-23	1.205E-22	1.127E-21	1.465E-20
U-238+D	Ra-226+D	9.999E-01	2.928E-20	3.686E-19	2.589E-17	1.828E-16	2.646E-15	9.427E-14	2.494E-12	8.892E-11
U-238+D	Pb-210+D	9.999E-01	1.861E-29	4.738E-28	1.319E-25	1.718E-24	5.477E-23	4.625E-21	1.985E-19	9.345E-18
U-238+D	Po-210	9.999E-01	0.000E+00	1.009E-27	6.213E-25	9.288E-24	3.257E-22	2.871E-20	1.230E-18	5.518E-17
U-238	%DSR(j)		8.125E-08	8.125E-08	8.126E-08	8.126E-08	8.128E-08	8.135E-08	8.156E-08	8.236E-08
õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ	õõõõõõõõõõ

The DSR includes contributions from associated (half-life Û 30 days) daughters.
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 90
Parent Dose Report
Title : Industrial No Cap Hydro

File : INDUSTRIAL NO 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
fffffff	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Ac-227	1.356E+08	1.400E+08	1.640E+08	1.983E+08	3.507E+08	3.217E+09	1.810E+12	*7.232E+13
Al-26	1.667E+05	1.667E+05	1.666E+05	1.665E+05	1.661E+05	1.646E+05	1.605E+05	1.468E+05
Am-241	*3.431E+12	*3.431E+12	*3.431E+12	*3.431E+12	*3.431E+12	*3.431E+12	*3.431E+12	*3.431E+12
Cf-249	1.196E+08	1.198E+08	1.209E+08	1.222E+08	1.262E+08	1.431E+08	2.050E+08	7.199E+08
Cf-251	5.659E+10	5.662E+10	5.677E+10	5.694E+10	5.746E+10	5.952E+10	6.581E+10	9.294E+10
Cf-252	*5.376E+14	*5.376E+14	*5.376E+14	*5.376E+14	*5.376E+14	*5.376E+14	*5.376E+14	*5.376E+14
Cl-36	*3.302E+10	*3.302E+10	*3.302E+10	*3.302E+10	*3.302E+10	*3.302E+10	*3.302E+10	*3.302E+10
Co-60	2.875E+05	3.281E+05	6.352E+05	1.403E+06	1.513E+07	1.573E+11	*1.132E+15	*1.132E+15
Cs-134	4.411E+06	6.172E+06	3.309E+07	2.483E+08	1.050E+11	*1.295E+15	*1.295E+15	*1.295E+15
Cs-137	1.394E+07	1.427E+07	1.600E+07	1.837E+07	2.777E+07	1.386E+08	1.369E+10	*8.704E+13
Eu-154	1.210E+06	1.309E+06	1.939E+06	3.109E+06	1.280E+07	3.145E+09	*2.639E+14	*2.639E+14
Eu-155	2.044E+14	2.349E+14	*4.652E+14	*4.652E+14	*4.652E+14	*4.652E+14	*4.652E+14	*4.652E+14
H-3	*9.597E+15	*9.597E+15	*9.597E+15	*9.597E+15	*9.597E+15	*9.597E+15	*9.597E+15	*9.597E+15
Ho-166m	3.488E+06	3.489E+06	3.497E+06	3.505E+06	3.532E+06	3.636E+06	3.952E+06	5.291E+06
Na-22	1.278E+06	1.668E+06	6.312E+06	3.118E+07	3.758E+09	*6.247E+15	*6.247E+15	*6.247E+15
Np-237	*7.047E+08	*7.047E+08	*7.047E+08	*7.047E+08	*7.047E+08	*7.047E+08	*7.047E+08	*7.047E+08
Pb-210	6.803E+11	4.295E+11	4.653E+11	5.602E+11	9.775E+11	8.520E+12	*7.634E+13	*7.634E+13
Pm-147	*9.275E+14	*9.275E+14	*9.275E+14	*9.275E+14	*9.275E+14	*9.275E+14	*9.275E+14	*9.275E+14
Pu-238	*1.712E+13	*1.712E+13	*1.712E+13	*1.712E+13	*1.712E+13	*1.712E+13	9.862E+12	5.667E+11
Pu-239	*6.214E+10	*6.214E+10	*6.214E+10	*6.214E+10	*6.214E+10	*6.214E+10	*6.214E+10	*6.214E+10
Pu-240	*2.278E+11	*2.278E+11	*2.278E+11	*2.278E+11	*2.278E+11	*2.278E+11	*2.278E+11	*2.278E+11
Pu-241	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14	*1.030E+14
Pu-242	*3.925E+09	*3.925E+09	*3.925E+09	*3.925E+09	*3.925E+09	*3.925E+09	*3.925E+09	*3.925E+09
Ra-226	2.961E+05	2.962E+05	2.966E+05	2.972E+05	2.988E+05	3.052E+05	3.242E+05	4.007E+05
Ra-228	3.410E+05	1.602E+05	1.172E+05	2.018E+05	1.680E+06	7.701E+09	*2.726E+14	*2.726E+14
Ru-106	5.759E+07	1.153E+08	3.704E+09	2.384E+11	*3.348E+15	*3.348E+15	*3.348E+15	*3.348E+15

Sb-125	3.334E+07	4.312E+07	1.560E+08	7.304E+08	7.495E+10	*1.033E+15	*1.033E+15	*1.033E+15
Sm-151	*2.632E+13	*2.632E+13	*2.632E+13	*2.632E+13	*2.632E+13	*2.632E+13	*2.632E+13	*2.632E+13
Sn-121m	*5.376E+13	*5.376E+13	*5.376E+13	*5.376E+13	*5.376E+13	*5.376E+13	*5.376E+13	*5.376E+13
Sn-126	4.183E+06	4.183E+06	4.179E+06	4.176E+06	4.164E+06	4.120E+06	3.997E+06	3.595E+06
Sr-90	5.095E+10	5.217E+10	5.870E+10	6.763E+10	1.034E+11	5.398E+11	6.057E+13	*1.365E+14
Th-228	7.830E+04	1.125E+05	6.872E+05	6.033E+06	4.085E+09	*8.195E+14	*8.195E+14	*8.195E+14
Th-230	1.367E+09	4.556E+08	1.052E+08	5.473E+07	2.247E+07	6.861E+06	2.335E+06	7.419E+05
Th-232	*1.097E+05	*1.097E+05	*1.097E+05	9.301E+04	6.532E+04	6.239E+04	6.101E+04	5.642E+04
U-233	*9.678E+09	*9.678E+09	*9.678E+09	*9.678E+09	5.369E+09	1.627E+09	5.420E+08	1.603E+08
U-234	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	*6.247E+09	1.714E+09	1.613E+08
U-235	*2.161E+06	*2.161E+06	*2.161E+06	*2.161E+06	*2.161E+06	*2.161E+06	*2.161E+06	*2.161E+06
U-236	*6.468E+07	*6.468E+07	*6.468E+07	*6.468E+07	*6.468E+07	*6.468E+07	*6.468E+07	*6.468E+07
U-238	*3.361E+05	*3.361E+05	*3.361E+05	*3.361E+05	*3.361E+05	*3.361E+05	*3.361E+05	*3.361E+05
ÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ	ÕÕÕÕÕÕÕÕÕ

*At specific activity limit

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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 = 1030 years

0Nuclide (i)	Initial (pCi/g)	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
fffffff	*fffffffff*	*ffffffffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Ac-227	2.340E+00	0	1.106E-07	1.356E+08	7.704E-22	*7.232E+13
Al-26	7.640E+02	1030	1.025E-04	1.463E+05	1.025E-04	1.463E+05
Am-241	1.410E+03	1030	2.548E-12	5.886E+12	2.548E-12	*3.431E+12
Cf-249	3.240E-03	0	1.254E-07	*4.094E+12	3.952E-08	3.795E+08
Cf-251	1.340E-02	0	2.650E-10	*1.586E+12	1.591E-10	9.428E+10
Cf-252	1.510E-07	0	9.562E-17	*5.376E+14	8.954E-17	*5.376E+14

Cl-36	2.790E-01	0	3.563E-12	*3.302E+10	2.547E-15	*3.302E+10
Co-60	4.860E+00	0	5.217E-05	2.875E+05	0.000E+00	*1.132E+15
Cs-134	2.620E-06	0	3.400E-06	*1.295E+15	0.000E+00	*1.295E+15
Cs-137	3.050E+03	0	1.076E-06	1.394E+07	5.811E-17	*8.704E+13
Eu-154	9.920E-03	0	1.240E-05	1.210E+06	8.659E-41	*2.639E+14
Eu-155	8.720E-03	0	7.339E-14	*4.652E+14	0.000E+00	*4.652E+14
H-3	3.780E+04	0	0.000E+00	*9.597E+15	0.000E+00	*9.597E+15
Ho-166m	5.020E-01	0	4.300E-06	3.488E+06	2.800E-06	5.356E+06
Na-22	1.120E-03	0	1.174E-05	1.278E+06	0.000E+00	*6.247E+15
Np-237	1.620E-03	1030	1.543E-08	*7.047E+08	1.543E-08	*7.047E+08
Pb-210	2.850E+00	2.01	3.605E-11	4.161E+11	5.751E-25	*7.634E+13
Pm-147	1.370E-08	0	1.372E-18	*9.275E+14	0.000E+00	*9.275E+14
Pu-238	1.470E+04	1030	2.821E-11	5.318E+11	2.821E-11	5.318E+11
Pu-239	9.250E+03	1030	3.734E-13	4.017E+13	3.734E-13	*6.214E+10
Pu-240	2.380E+03	1030	1.865E-16	8.042E+16	1.865E-16	*2.278E+11
Pu-241	3.820E+03	1030	8.425E-14	1.780E+14	1.685E-13	8.902E+13
Pu-242	2.520E-01	1030	1.417E-14	*3.925E+09	1.417E-14	*3.925E+09
Ra-226	3.850E+00	0	5.066E-05	2.961E+05	3.710E-05	4.043E+05
Ra-228	4.190E+00	4.02	1.371E-04	1.094E+05	0.000E+00	*2.726E+14
Ru-106	7.770E-09	0	2.605E-07	*3.348E+15	0.000E+00	*3.348E+15
Sb-125	5.400E-04	0	4.499E-07	3.334E+07	0.000E+00	*1.033E+15
Sm-151	2.110E-02	0	0.000E+00	*2.632E+13	0.000E+00	*2.632E+13
Sn-121m	5.020E-01	0	1.061E-16	*5.376E+13	3.416E-22	*5.376E+13
Sn-126	1.220E-01	1030	4.192E-06	3.578E+06	4.192E-06	3.578E+06
Sr-90	4.300E+02	0	2.944E-10	5.095E+10	8.244E-21	*1.365E+14
Th-228	8.930E-03	0	1.916E-04	7.830E+04	0.000E+00	*8.195E+14
Th-230	8.370E+01	1030	2.077E-05	7.223E+05	2.077E-05	7.223E+05
Th-232	9.880E-03	1030	2.668E-04	*1.097E+05	2.668E-04	5.623E+04
U-233	2.790E+00	1030	9.637E-08	1.557E+08	9.637E-08	1.557E+08
U-234	4.260E+01	1030	9.838E-08	1.525E+08	9.838E-08	1.525E+08
U-235	2.180E+02	1030	3.317E-09	4.522E+09	3.317E-09	*2.161E+06
U-236	4.070E-01	1030	1.247E-11	*6.468E+07	1.247E-11	*6.468E+07
U-238	5.350E+01	1030	8.240E-08	1.820E+08	8.240E-08	*3.361E+05

ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ
*At specific activity limit

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
ffffff	*ffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Ac-227	Ac-227	1.000E+00	2.588E-07	2.507E-07	2.140E-07	1.770E-07	1.001E-07	1.091E-08	1.939E-11	4.588E-21
Ac-227	Cf-251	1.000E+00	0.000E+00	1.201E-35	3.183E-35	1.669E-35	0.000E+00	1.162E-31	4.942E-29	2.727E-26
Ac-227	Pu-239	1.000E+00	3.582E-20	4.481E-19	3.030E-17	2.046E-16	2.612E-15	6.224E-14	8.226E-13	1.138E-11
Ac-227	U-235	1.000E+00	3.072E-12	1.928E-11	3.269E-10	1.136E-09	5.713E-09	3.686E-08	1.437E-07	5.521E-07
Ac-227	%DOSE(j):		2.588E-07	2.508E-07	2.143E-07	1.781E-07	1.058E-07	4.777E-08	1.437E-07	5.521E-07
0Al-26	Al-26	1.000E+00	6.873E-02	6.874E-02	6.879E-02	6.884E-02	6.900E-02	6.961E-02	7.140E-02	7.805E-02
0Am-241	Am-241	1.000E+00	9.851E-19	9.841E-19	9.789E-19	9.727E-19	9.544E-19	8.863E-19	7.174E-19	3.423E-19
Am-241	Cf-249	1.000E+00	7.377E-34	9.195E-33	6.087E-31	4.010E-30	4.787E-29	9.541E-28	9.785E-27	8.054E-26
Am-241	Pu-241	1.000E+00	2.103E-21	6.182E-21	2.384E-20	4.005E-20	6.755E-20	8.198E-20	6.699E-20	3.196E-20

```
 Am-241  %DOSE(j):           9.872E-19 9.902E-19 1.003E-18 1.013E-18 1.022E-18 9.683E-19 7.844E-19
3.743E-19
0Np-237  Am-241  1.000E+00    2.958E-12 8.869E-12 3.832E-11 7.341E-11 1.771E-10 5.594E-10 1.489E-09
3.510E-09
 Np-237  Cf-249  1.000E+00    1.002E-27 2.392E-26 6.083E-24 7.747E-23 2.325E-21 1.651E-19 5.418E-18
1.479E-16
 Np-237  Cf-249  2.450E-05    6.768E-29 8.436E-28 5.586E-26 3.681E-25 4.401E-24 8.849E-23 9.388E-22
8.763E-21
 Np-237  Np-237  1.000E+00    2.100E-11 2.100E-11 2.102E-11 2.104E-11 2.109E-11 2.132E-11 2.200E-11
2.452E-11
 Np-237  Pu-241  1.000E+00    4.766E-15 2.977E-14 4.909E-13 1.653E-12 7.658E-12 4.065E-11 1.270E-10
3.143E-10
 Np-237  Pu-241  2.450E-05    1.929E-16 5.675E-16 2.194E-15 3.697E-15 6.314E-15 8.232E-15 8.560E-15
9.542E-15
 Np-237  %DOSE(j):           2.396E-11 2.990E-11 5.982E-11 9.610E-11 2.059E-10 6.214E-10 1.638E-09
3.849E-09
0U-233   Am-241  1.000E+00    3.383E-22 2.141E-21 3.809E-20 1.402E-19 8.288E-19 8.780E-18 7.343E-17
6.678E-16
 U-233   Cf-249  1.000E+00    7.854E-37 2.479E-36 2.465E-33 6.040E-32 4.526E-30 1.138E-27 1.233E-25
1.311E-23
 U-233   Cf-249  2.450E-05    4.677E-39 1.112E-37 2.834E-35 3.617E-34 1.092E-32 7.959E-31 2.821E-29
1.005E-27
 U-233   Np-237  1.000E+00    3.195E-21 9.586E-21 4.157E-20 8.000E-20 1.957E-19 6.514E-19 2.004E-18
7.378E-18
 U-233   Pu-241  1.000E+00    4.050E-25 5.048E-24 3.345E-22 2.206E-21 2.643E-20 5.362E-19 5.834E-18
5.840E-17
 U-233   Pu-241  2.450E-05    2.216E-26 1.385E-25 2.290E-24 7.740E-24 3.623E-23 2.016E-22 7.266E-22
2.814E-21
 U-233   U-233   1.000E+00    2.516E-12 2.516E-12 2.518E-12 2.519E-12 2.523E-12 2.540E-12 2.588E-12
2.764E-12
 U-233   %DOSE(j):           2.516E-12 2.516E-12 2.518E-12 2.519E-12 2.523E-12 2.540E-12 2.588E-12
2.765E-12
0Th-229  Am-241  1.000E+00    9.559E-21 1.203E-19 8.431E-18 5.942E-17 8.560E-16 2.992E-14 7.510E-13
```

```
2.277E-11
 Th-229  Cf-249  1.000E+00    5.408E-29 3.150E-31 1.299E-29 4.225E-29 2.392E-27 2.086E-24 7.129E-22
2.610E-19
 Th-229  Cf-249  2.450E-05    1.248E-33 7.268E-36 3.549E-33 9.394E-32 7.049E-30 1.795E-27 2.019E-25
2.442E-23
 Th-229  Np-237  1.000E+00    1.218E-19 7.711E-19 1.374E-17 5.072E-17 3.020E-16 3.289E-15 2.967E-14
3.395E-13
 Th-229  Pu-241  1.000E+00    9.185E-24 2.219E-22 5.653E-20 7.213E-19 2.177E-17 1.585E-15 5.596E-14
1.948E-12
 Th-229  Pu-241  2.450E-05    6.279E-25 7.829E-24 5.194E-22 3.431E-21 4.134E-20 8.594E-19 1.007E-17
1.268E-16
 Th-229  U-233   1.000E+00    1.277E-10 3.830E-10 1.660E-09 3.192E-09 7.792E-09 2.571E-08 7.721E-08
2.610E-07
 Th-229  %DOSE(j):           1.277E-10 3.830E-10 1.660E-09 3.192E-09 7.792E-09 2.571E-08 7.721E-08
2.610E-07
0Cf-249  Cf-249  5.200E-09    2.113E-18 2.109E-18 2.090E-18 2.068E-18 2.002E-18 1.765E-18 1.233E-18
3.510E-19
 Cf-249  Cf-249  1.000E+00    4.063E-10 4.055E-10 4.019E-10 3.976E-10 3.850E-10 3.395E-10 2.371E-10
6.751E-11
 Cf-249  %DOSE(j):           4.063E-10 4.055E-10 4.019E-10 3.976E-10 3.850E-10 3.395E-10 2.371E-10
6.751E-11
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  93
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 fffffff fffffff fffffffff   fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
```

```
 Cm-245  Cf-249  1.000E+00    7.881E-19 2.363E-18 1.020E-17 1.953E-17 4.703E-17 1.473E-16 3.838E-16
8.644E-16
 Cm-245  %DOSE(j):           7.881E-19 2.363E-18 1.020E-17 1.953E-17 4.703E-17 1.473E-16 3.838E-16
8.644E-16
0Pu-241  Cf-249  1.000E+00    5.237E-26 3.271E-25 5.394E-24 1.816E-23 8.403E-23 4.436E-22 1.363E-21
3.263E-21
 Pu-241  Cf-249  2.450E-05    4.959E-24 3.098E-23 5.106E-22 1.719E-21 7.946E-21 4.181E-20 1.272E-19
2.947E-19
 Pu-241  Pu-241  1.000E+00    8.289E-14 7.902E-14 6.221E-14 4.669E-14 1.974E-14 6.940E-16 4.865E-20
1.403E-34
 Pu-241  %DOSE(j):           8.289E-14 7.902E-14 6.221E-14 4.669E-14 1.974E-14 6.941E-16 1.772E-19
2.980E-19
0Cf-249  Cf-249  2.450E-05    9.953E-15 9.936E-15 9.847E-15 9.741E-15 9.432E-15 8.318E-15 5.809E-15
1.654E-15
0Cm-245  Cf-249  2.450E-05    1.931E-23 5.789E-23 2.499E-22 4.785E-22 1.152E-21 3.608E-21 9.404E-21
2.118E-20
0Cf-251  Cf-251  1.000E+00    3.552E-12 3.550E-12 3.540E-12 3.529E-12 3.496E-12 3.369E-12 3.031E-12
2.094E-12
0Cm-247  Cf-251  1.000E+00    4.141E-17 1.242E-16 5.377E-16 1.033E-15 2.511E-15 8.155E-15 2.344E-14
6.898E-14
0Am-243  Cf-251  1.000E+00    5.312E-24 3.363E-23 5.992E-22 2.210E-21 1.314E-20 1.421E-19 1.260E-18
1.367E-17
0Pu-239  Cf-251  1.000E+00    2.532E-32 3.186E-31 2.236E-29 1.579E-28 2.289E-27 8.190E-26 2.195E-24
8.227E-23
 Pu-239  Pu-239  1.000E+00    2.777E-09 2.778E-09 2.781E-09 2.784E-09 2.795E-09 2.835E-09 2.955E-09
3.414E-09
 Pu-239  %DOSE(j):           2.777E-09 2.778E-09 2.781E-09 2.784E-09 2.795E-09 2.835E-09 2.955E-09
3.414E-09
0U-235   Cf-251  1.000E+00    1.595E-37 1.610E-37 6.786E-35 9.126E-34 3.221E-32 3.802E-30 3.059E-28
3.865E-26
 U-235   Pu-239  1.000E+00    2.560E-15 7.681E-15 3.331E-14 6.412E-14 1.569E-13 5.225E-13 1.611E-12
5.980E-12
 U-235   U-235   1.000E+00    1.225E-07 1.225E-07 1.226E-07 1.227E-07 1.229E-07 1.237E-07 1.261E-07
```

```
1.349E-07
 U-235   %DOSE(j):           1.225E-07 1.225E-07 1.226E-07 1.227E-07 1.229E-07 1.237E-07 1.261E-07
1.350E-07
0Pa-231  Cf-251  1.000E+00    0.000E+00 4.913E-37 1.770E-36 3.026E-36 2.091E-35 9.265E-33 2.225E-30
9.300E-28
 Pa-231  Pu-239  1.000E+00    1.167E-19 7.387E-19 1.317E-17 4.864E-17 2.901E-16 3.180E-15 2.922E-14
3.568E-13
 Pa-231  U-235   1.000E+00    7.430E-12 2.229E-11 9.666E-11 1.860E-10 4.549E-10 1.511E-09 4.629E-09
1.677E-08
 Pa-231  %DOSE(j):           7.430E-12 2.229E-11 9.666E-11 1.860E-10 4.549E-10 1.511E-09 4.629E-09
1.677E-08
0Cf-252  Cf-252  3.092E-02    4.464E-25 3.434E-25 9.250E-26 1.917E-26 1.704E-28 1.789E-36 0.000E+00 0.000E
+00
 Cf-252  Cf-252  8.005E-02    1.156E-24 8.891E-25 2.395E-25 4.962E-26 4.410E-28 4.632E-36 0.000E+00 0.000E
+00
 Cf-252  %DOSE(j):           1.602E-24 1.232E-24 3.320E-25 6.878E-26 6.114E-28 6.421E-36 0.000E+00 0.000E
+00
0Cm-248  Cf-252  8.005E-02    0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E
+00
 Cm-248  Cf-252  4.395E-08    0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E
+00
 Cm-248  Cf-252  8.879E-01    0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E
+00
 Cm-248  %DOSE(j):           0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E
+00
0Cf-252  Cf-252  1.111E-03    1.605E-26 1.234E-26 3.325E-27 6.888E-28 6.123E-30 6.431E-38 0.000E+00 0.000E
+00
 Cf-252  Cf-252  4.395E-08    6.346E-31 4.882E-31 1.315E-31 2.724E-32 2.422E-34 2.543E-42 0.000E+00 0.000E
+00
 Cf-252  %DOSE(j):           1.605E-26 1.234E-26 3.325E-27 6.888E-28 6.123E-30 6.431E-38 0.000E+00 0.000E
+00
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  94
 Parent Dose Report
```

Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
ffffff	*ffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Cm-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
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
0Pu-244	Cf-252	4.395E-08	2.563E-35	1.516E-34	1.891E-33	4.937E-33	1.496E-32	5.475E-32	1.732E-31	6.471E-31
Pu-244	%DOSE(j):		2.563E-35	1.516E-34	1.891E-33	4.937E-33	1.496E-32	5.475E-32	1.732E-31	6.471E-31
0Pu-240	Cf-252	4.395E-08	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	1.401E-45	1.541E-44
Pu-240	Pu-240	4.950E-08	5.883E-23	5.885E-23	5.893E-23	5.903E-23	5.932E-23	6.047E-23	6.388E-23	7.740E-23
Pu-240	%DOSE(j):		5.883E-23	5.885E-23	5.893E-23	5.903E-23	5.932E-23	6.047E-23	6.388E-23	7.740E-23
0Cf-252	Cf-252	8.879E-01	1.282E-23	9.862E-24	2.656E-24	5.504E-25	4.892E-27	5.138E-35	0.000E+00	0.000E+00
0Pu-244	Cf-252	8.879E-01	5.177E-28	3.062E-27	3.820E-26	9.975E-26	3.021E-25	1.106E-24	3.499E-24	1.307E-23
0Pu-240	Cf-252	8.879E-01	5.605E-45	7.287E-44	3.859E-42	2.075E-41	1.703E-40	2.247E-39	2.262E-38	3.243E-37
0U-236	Cf-252	8.879E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	2.803E-45	1.023E-43	3.116E-42	1.438E-40
U-236	Pu-240	1.000E+00	8.429E-22	2.529E-21	1.097E-20	2.113E-20	5.176E-20	1.732E-19	5.412E-19	

```
2.103E-18
 U-236   U-236   1.000E+00    9.738E-18 9.740E-18 9.750E-18 9.762E-18 9.797E-18 9.936E-18 1.034E-17
1.191E-17
 U-236   %DOSE(j):           9.739E-18 9.743E-18 9.761E-18 9.783E-18 9.849E-18 1.011E-17 1.089E-17
1.401E-17
0Th-232  Cf-252  8.879E-01    0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E
+00
 Th-232  Pu-240  1.000E+00    1.285E-32 8.137E-32 1.452E-30 5.367E-30 3.209E-29 3.552E-28 3.358E-27
4.530E-26
 Th-232  Th-232  1.000E+00    1.944E-19 1.945E-19 1.948E-19 1.953E-19 1.965E-19 2.016E-19 2.168E-19
2.796E-19
 Th-232  U-236   1.000E+00    1.976E-28 5.928E-28 2.573E-27 4.956E-27 1.216E-26 4.088E-26 1.296E-25
5.293E-25
 Th-232  %DOSE(j):           1.944E-19 1.945E-19 1.948E-19 1.953E-19 1.965E-19 2.016E-19 2.168E-19
2.796E-19
0Ra-228  Cf-252  8.879E-01    4.204E-45 5.605E-45 2.803E-45 1.401E-44 1.331E-43 3.697E-41 4.058E-39
5.944E-37
 Ra-228  Pu-240  1.000E+00    2.142E-22 2.632E-21 1.614E-19 9.795E-19 9.762E-18 1.505E-16 1.519E-15
1.828E-14
 Ra-228  Ra-228  1.000E+00    3.962E-05 3.513E-05 1.924E-05 9.345E-06 1.070E-06 2.339E-10 8.149E-21 0.000E
+00
 Ra-228  Th-232  1.000E+00    5.714E-09 1.633E-08 5.386E-08 7.728E-08 9.705E-08 1.006E-07 1.036E-07
1.146E-07
 Ra-228  U-236   1.000E+00    4.414E-18 2.706E-17 4.027E-16 1.219E-15 4.528E-15 1.872E-14 6.021E-14
2.153E-13
 Ra-228  %DOSE(j):           3.963E-05 3.515E-05 1.930E-05 9.422E-06 1.167E-06 1.008E-07 1.036E-07
1.146E-07
0Th-228  Cf-252  8.879E-01    6.586E-44 6.866E-44 0.000E+00 1.962E-44 1.620E-42 7.429E-40 8.777E-38
1.289E-35
 Th-228  Pu-240  1.000E+00    3.734E-22 8.327E-21 1.483E-18 1.307E-17 1.781E-16 3.208E-15 3.348E-14
3.985E-13
 Th-228  Ra-228  1.000E+00    1.447E-04 3.571E-04 5.172E-04 3.021E-04 3.633E-05 7.927E-09 2.743E-19 0.000E
+00
```

```
 Th-228  Th-228  1.000E+00    1.711E-06 1.191E-06 1.949E-07 2.220E-08 3.279E-11 3.190E-22 0.000E+00 0.000E
+00
 Th-228  Th-232  1.000E+00    1.618E-08 9.029E-08 8.162E-07 1.516E-06 2.172E-06 2.275E-06 2.326E-06
2.512E-06
 Th-228  U-236   1.000E+00    9.391E-18 1.076E-16 4.561E-15 1.916E-14 9.051E-14 4.109E-13 1.340E-12
4.707E-12
 Th-228  %DOSE(j):           1.464E-04 3.584E-04 5.182E-04 3.036E-04 3.850E-05 2.283E-06 2.326E-06
2.512E-06
0Cl-36   Cl-36   1.000E+00    9.940E-13 9.870E-13 9.529E-13 9.135E-13 8.049E-13 4.918E-13 1.204E-13
8.746E-16
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  95
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 fffffff fffffff fffffffff   fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 Co-60   Co-60   1.000E+00    2.535E-04 2.222E-04 1.148E-04 5.195E-05 4.817E-06 4.634E-10 1.547E-21 0.000E
+00
0Cs-134  Cs-134  1.000E+00    8.909E-12 6.367E-12 1.188E-12 1.583E-13 3.744E-16 2.279E-26 0.000E+00 0.000E
+00
0Cs-137  Cs-137  1.000E+00    3.281E-03 3.207E-03 2.859E-03 2.491E-03 1.648E-03 3.302E-04 3.343E-06
3.490E-13
0Eu-154  Eu-154  1.000E+00    1.230E-07 1.137E-07 7.672E-08 4.787E-08 1.163E-08 4.732E-11 7.005E-18
8.741E-42
0Eu-155  Eu-155  1.000E+00    6.400E-16 5.567E-16 2.773E-16 1.201E-16 9.771E-18 5.641E-22 4.380E-34 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    2.159E-06 2.158E-06 2.153E-06 2.148E-06 2.132E-06 2.071E-06 1.905E-06
1.423E-06
0Na-22   Na-22   1.000E+00    1.314E-08 1.007E-08 2.661E-09 5.389E-10 4.470E-12 3.589E-20 2.676E-43 0.000E
+00
0Pb-210  Pb-210  1.000E+00    1.478E-11 1.433E-11 1.228E-11 1.020E-11 5.853E-12 6.746E-13 1.406E-15
5.817E-25
 Pb-210  Pu-238  1.000E+00    3.121E-25 7.463E-24 1.919E-21 2.476E-20 7.674E-19 5.795E-17 1.841E-15
4.185E-14
 Pb-210  Pu-242  9.999E-01    1.387E-36 1.042E-35 9.180E-36 1.611E-34 1.345E-32 3.937E-30 5.433E-28
9.185E-26
 Pb-210  Ra-226  1.000E+00    3.114E-13 9.221E-13 3.707E-12 6.524E-12 1.240E-11 1.921E-11 1.934E-11
1.680E-11
 Pb-210  Th-230  1.000E+00    1.105E-15 6.938E-15 1.177E-13 4.096E-13 2.065E-12 1.338E-11 5.172E-11
1.894E-10
 Pb-210  U-234   1.000E+00    1.413E-21 1.767E-20 1.196E-18 8.083E-18 1.033E-16 2.471E-15 3.244E-14
4.293E-13
 Pb-210  U-238   9.999E-01    9.955E-28 2.535E-26 7.056E-24 9.189E-23 2.930E-21 2.475E-19 1.062E-17
4.999E-16
 Pb-210  %DOSE(j):           1.509E-11 1.526E-11 1.610E-11 1.714E-11 2.032E-11 3.327E-11 7.110E-11
2.067E-10
0Po-210  Pb-210  1.000E+00    4.806E-11 8.520E-11 7.960E-11 6.611E-11 3.788E-11 4.343E-12 8.919E-15
3.500E-24
 Po-210  Pu-238  1.000E+00    5.292E-25 1.959E-23 9.049E-21 1.340E-19 4.567E-18 3.600E-16 1.142E-14
2.472E-13
 Po-210  Pu-242  9.999E-01    1.608E-35 9.862E-35 8.014E-35 8.626E-34 7.867E-32 2.430E-29 3.361E-27
5.420E-25
 Po-210  Ra-226  1.000E+00    8.824E-13 3.925E-12 2.180E-11 4.005E-11 7.806E-11 1.215E-10 1.206E-10
9.938E-11
 Po-210  Th-230  1.000E+00    2.504E-15 2.403E-14 6.380E-13 2.403E-12 1.274E-11 8.408E-11 3.218E-10
1.120E-09
 Po-210  U-234   1.000E+00    2.736E-21 5.251E-20 6.024E-18 4.547E-17 6.256E-16 1.543E-14 2.015E-13
2.537E-12
```

```
 Po-210  U-238   9.999E-01    0.000E+00 5.400E-26 3.324E-23 4.969E-22 1.742E-20 1.536E-18 6.583E-17
2.952E-15
 Po-210  %DOSE(j):           4.895E-11 8.915E-11 1.020E-10 1.086E-10 1.287E-10 2.099E-10 4.426E-10
1.222E-09
0Pm-147  Pm-147  1.000E+00    1.879E-26 1.444E-26 3.861E-27 7.932E-28 6.872E-30 6.535E-38 0.000E+00 0.000E
+00
0Sm-147  Pm-147  1.000E+00    0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E
+00
0Pu-238  Pu-238  1.840E-09    3.009E-22 2.986E-22 2.876E-22 2.748E-22 2.399E-22 1.413E-22 3.117E-23
1.570E-25
 Pu-238  Pu-238  1.000E+00    1.635E-13 1.623E-13 1.563E-13 1.494E-13 1.304E-13 7.680E-14 1.694E-14
8.535E-17
 Pu-238  %DOSE(j):           1.635E-13 1.623E-13 1.563E-13 1.494E-13 1.304E-13 7.680E-14 1.694E-14
8.535E-17
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  96
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 fffffff fffffff fffffffff   fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 U-234   Pu-238  1.000E+00    1.984E-18 5.935E-18 2.526E-17 4.752E-17 1.087E-16 2.832E-16 4.908E-16
6.215E-16
 U-234   Pu-242  9.999E-01    1.989E-33 1.259E-32 2.247E-31 8.302E-31 4.960E-30 5.476E-29 5.137E-28
6.745E-27
 U-234   U-234   1.000E+00    4.069E-15 4.069E-15 4.073E-15 4.078E-15 4.092E-15 4.147E-15 4.309E-15
4.928E-15
 U-234   U-238   9.999E-01    7.243E-21 2.173E-20 9.426E-20 1.815E-19 4.444E-19 1.484E-18 4.612E-18
```

```
1.758E-17
 U-234   %DOSE(j):           4.071E-15 4.075E-15 4.099E-15 4.126E-15 4.201E-15 4.432E-15 4.805E-15
5.567E-15
0Th-230  Pu-238  1.000E+00   6.430E-23 4.063E-22 7.158E-21 2.604E-20 1.487E-19 1.389E-18 8.732E-18
4.909E-17
 Th-230  Pu-242  9.999E-01   4.764E-38 6.023E-37 4.223E-35 2.987E-34 4.348E-33 1.582E-31 4.448E-30
1.958E-28
 Th-230  Th-230  1.000E+00   7.652E-14 7.655E-14 7.667E-14 7.682E-14 7.726E-14 7.899E-14 8.417E-14
1.051E-13
 Th-230  U-234   1.000E+00   1.753E-19 5.260E-19 2.282E-18 4.395E-18 1.077E-17 3.612E-17 1.135E-16
4.501E-16
 Th-230  U-238   9.999E-01   2.345E-25 1.485E-24 2.649E-23 9.787E-23 5.846E-22 6.448E-21 6.032E-20
7.839E-19
 Th-230  %DOSE(j):           7.652E-14 7.655E-14 7.667E-14 7.682E-14 7.727E-14 7.903E-14 8.430E-14
1.056E-13
0Ra-226  Pu-238  1.000E+00   4.301E-16 5.406E-15 3.758E-13 2.623E-12 3.670E-11 1.153E-09 2.236E-08
3.891E-07
 Ra-226  Pu-242  9.999E-01   1.404E-29 1.094E-28 1.697E-27 2.234E-26 7.901E-25 9.294E-23 7.405E-21
9.013E-19
 Ra-226  Ra-226  1.000E+00   1.950E-04 1.950E-04 1.947E-04 1.943E-04 1.933E-04 1.892E-04 1.781E-04
1.441E-04
 Ra-226  Th-230  1.000E+00   9.186E-07 2.756E-06 1.194E-05 2.294E-05 5.588E-05 1.830E-04 5.377E-04
1.692E-03
 Ra-226  U-234   1.000E+00   1.581E-12 1.001E-11 1.783E-10 6.578E-10 3.908E-09 4.223E-08 3.728E-07
3.961E-06
 Ra-226  U-238   9.999E-01   1.566E-18 1.972E-17 1.385E-15 9.778E-15 1.416E-13 5.044E-12 1.334E-10
4.757E-09
 Ra-226  %DOSE(j):           1.960E-04 1.977E-04 2.066E-04 2.173E-04 2.492E-04 3.723E-04 7.162E-04
1.841E-03
0Pu-240  Pu-240  1.000E+00   1.189E-15 1.189E-15 1.190E-15 1.192E-15 1.198E-15 1.222E-15 1.290E-15
1.564E-15
0Pu-241  Pu-241  2.450E-05   7.849E-12 7.483E-12 5.890E-12 4.419E-12 1.867E-12 6.541E-14 4.542E-18
1.267E-32
```

```
0Pu-242  Pu-242  5.500E-06    1.787E-24 1.788E-24 1.791E-24 1.795E-24 1.807E-24 1.854E-24 1.995E-24
2.578E-24
 Pu-242  Pu-242  5.400E-05    1.755E-23 1.755E-23 1.759E-23 1.763E-23 1.774E-23 1.820E-23 1.959E-23
2.531E-23
 Pu-242  %DOSE(j):           1.934E-23 1.934E-23 1.938E-23 1.942E-23 1.955E-23 2.006E-23 2.158E-23
2.789E-23
0U-238   Pu-242  5.400E-05    0.000E+00 0.000E+00 1.401E-45 1.401E-45 4.204E-45 1.401E-44 4.624E-44
2.508E-43
 U-238   Pu-242  9.999E-01    1.588E-18 4.765E-18 2.066E-17 3.975E-17 9.713E-17 3.219E-16 9.788E-16
3.458E-15
 U-238   U-238   5.400E-05    1.741E-34 1.742E-34 1.747E-34 1.754E-34 1.773E-34 1.850E-34 2.089E-34
3.194E-34
 U-238   %DOSE(j):           1.588E-18 4.765E-18 2.066E-17 3.975E-17 9.713E-17 3.219E-16 9.788E-16
3.458E-15
0Pu-242  Pu-242  9.999E-01    3.250E-19 3.251E-19 3.257E-19 3.264E-19 3.285E-19 3.371E-19 3.627E-19
4.687E-19
0Ru-106  Ru-106  1.000E+00    2.024E-15 1.011E-15 3.147E-17 4.889E-19 1.825E-24 1.401E-45 0.000E+00 0.000E
+00
0Sb-125  Sb-125  7.720E-01    1.876E-10 1.450E-10 4.008E-11 8.561E-12 8.343E-14 1.253E-21 5.465E-44 0.000E
+00
 Sb-125  Sb-125  2.280E-01    5.540E-11 4.283E-11 1.184E-11 2.529E-12 2.464E-14 3.702E-22 1.541E-44 0.000E
+00
 Sb-125  %DOSE(j):           2.430E-10 1.879E-10 5.191E-11 1.109E-11 1.081E-13 1.623E-21 7.006E-44 0.000E
+00
0Te-125m Sb-125  2.280E-01    1.662E-30 1.970E-30 5.490E-31 1.176E-31 1.156E-33 1.795E-41 0.000E+00 0.000E
+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
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page  97
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
fffffff fffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
Sn-121m Sn-121m 1.000E+00 5.324E-17 5.259E-17 4.946E-17 4.594E-17 3.683E-17 1.559E-17 1.336E-18 2.463E-22
0Sn-126 Sn-126 1.000E+00 4.375E-07 4.375E-07 4.379E-07 4.383E-07 4.395E-07 4.441E-07 4.578E-07 5.091E-07
0Sr-90 Sr-90 1.000E+00 1.266E-07 1.236E-07 1.099E-07 9.537E-08 6.236E-08 1.195E-08 1.065E-10 7.112E-18
0U-238 U-238 9.999E-01 4.347E-06 4.347E-06 4.347E-06 4.348E-06 4.349E-06 4.352E-06 4.363E-06 4.401E-06
ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ ÕÕÕÕÕÕÕÕÕ
THF(i) is the thread fraction of the parent nuclide.
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 98
Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO 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
fffffff fffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
Ac-227 Ac-227 1.000E+00 2.340E+00 2.267E+00 1.933E+00 1.597E+00 9.004E-01 9.694E-02 1.664E-04 3.484E-14
Ac-227 Cf-251 1.000E+00 0.000E+00 0.000E+00 4.925E-29 0.000E+00 0.000E+00 9.892E-25 4.137E-22

```
2.033E-19
 Ac-227  Pu-239  1.000E+00    0.000E+00 1.022E-12 2.110E-10 1.611E-09 2.207E-08 5.376E-07 6.922E-06
8.500E-05
 Ac-227  U-235   1.000E+00    0.000E+00 7.285E-05 2.483E-03 9.341E-03 4.915E-02 3.202E-01 1.211E+00 4.125E
+00
 Ac-227  %S(j):              2.340E+00 2.267E+00 1.936E+00 1.606E+00 9.495E-01 4.172E-01 1.211E+00 4.125E
+00
0Al-26   Al-26   1.000E+00    7.640E+02 7.640E+02 7.640E+02 7.640E+02 7.639E+02 7.637E+02 7.631E+02 7.610E
+02
0Am-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 6.441E-08 1.277E-06 1.184E-05
6.663E-05
 Am-241  Pu-241  1.000E+00    0.000E+00 5.976E+00 3.176E+01 5.525E+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 9.528E+02 3.100E
+02
0Np-237  Am-241  1.000E+00    0.000E+00 4.563E-04 2.727E-03 5.426E-03 1.337E-02 4.209E-02 1.079E-01
2.203E-01
 Np-237  Cf-249  1.000E+00    0.000E+00 2.758E-19 3.364E-16 5.067E-15 1.675E-13 1.227E-11 3.910E-10
9.276E-09
 Np-237  Cf-249  2.450E-05    0.000E+00 1.673E-20 3.379E-18 2.516E-17 3.227E-16 6.612E-15 6.787E-14
5.497E-13
 Np-237  Np-237  1.000E+00    1.620E-03 1.620E-03 1.620E-03 1.619E-03 1.618E-03 1.612E-03 1.595E-03
1.539E-03
 Np-237  Pu-241  1.000E+00    0.000E+00 9.786E-07 3.242E-05 1.181E-04 5.718E-04 3.055E-03 9.198E-03
1.973E-02
 Np-237  Pu-241  2.450E-05    0.000E+00 2.959E-08 1.579E-07 2.762E-07 4.807E-07 6.221E-07 6.208E-07
5.990E-07
 Np-237  %S(j):              1.620E-03 2.077E-03 4.379E-03 7.164E-03 1.556E-02 4.675E-02 1.187E-01
2.416E-01
0U-233   Am-241  1.000E+00    0.000E+00 1.001E-09 3.584E-08 1.428E-07 8.828E-07 9.409E-06 7.546E-05
5.804E-04
```

```
 U-233   Cf-249  1.000E+00    0.000E+00 1.915E-24 1.782E-21 5.426E-20 4.598E-18 1.204E-15 1.263E-13
1.139E-11
 U-233   Cf-249  2.450E-05    0.000E+00 1.847E-26 2.251E-23 3.397E-22 1.129E-20 8.468E-19 2.893E-17
8.728E-16
 U-233   Np-237  1.000E+00    0.000E+00 7.084E-09 4.248E-08 8.491E-08 2.119E-07 7.014E-07 2.063E-06
6.413E-06
 U-233   Pu-241  1.000E+00    0.000E+00 1.439E-12 2.906E-10 2.165E-09 2.782E-08 5.736E-07 5.994E-06
5.075E-05
 U-233   Pu-241  2.450E-05    0.000E+00 6.541E-14 2.172E-12 7.939E-12 3.882E-11 2.168E-10 7.477E-10
2.446E-09
 U-233   U-233   1.000E+00    2.790E+00 2.790E+00 2.788E+00 2.785E+00 2.778E+00 2.749E+00 2.668E+00 2.404E
+00
 U-233   %S(j):               2.790E+00 2.790E+00 2.788E+00 2.785E+00 2.778E+00 2.749E+00 2.668E+00 2.405E
+00
0Th-229  Am-241  1.000E+00    0.000E+00 3.165E-14 6.780E-12 5.404E-11 8.369E-10 2.999E-08 7.389E-07
2.034E-05
 Th-229  Cf-249  1.000E+00    0.000E+00 1.293E-24 0.000E+00 5.588E-23 2.180E-21 2.064E-18 6.988E-16
2.329E-13
 Th-229  Cf-249  2.450E-05    0.000E+00 2.982E-29 5.387E-28 7.957E-26 6.683E-24 1.785E-21 1.983E-19
2.180E-17
 Th-229  Np-237  1.000E+00    0.000E+00 3.355E-13 1.204E-11 4.812E-11 3.002E-10 3.312E-09 2.923E-08
3.033E-07
 Th-229  Pu-241  1.000E+00    0.000E+00 3.434E-17 4.182E-14 6.313E-13 2.101E-11 1.585E-09 5.504E-08
1.740E-06
 Th-229  Pu-241  2.450E-05    0.000E+00 2.076E-18 4.203E-16 3.138E-15 4.061E-14 8.640E-13 9.917E-12
1.133E-10
 Th-229  U-233   1.000E+00    0.000E+00 2.634E-04 1.580E-03 3.157E-03 7.875E-03 2.603E-02 7.621E-02
2.333E-01
 Th-229  %S(j):               0.000E+00 2.634E-04 1.580E-03 3.157E-03 7.875E-03 2.603E-02 7.621E-02
2.333E-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 9.302E-12
2.326E-12
 Cf-249  Cf-249  1.000E+00    3.240E-03 3.234E-03 3.202E-03 3.164E-03 3.053E-03 2.658E-03 1.789E-03
```

4.473E-04
 Cf-249 %S(j): 3.240E-03 3.234E-03 3.202E-03 3.164E-03 3.053E-03 2.658E-03 1.789E-03
4.473E-04
1RESRAD-OFFSITE, Version 2.6 T´ Limit = 30 days 09/19/2012 14:58 Page 99
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File : INDUSTRIAL NO 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
fffffff	*fffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
Cm-245	Cf-249	1.000E+00	0.000E+00	2.639E-07	1.575E-06	3.131E-06	7.685E-06	2.386E-05	5.889E-05	1.085E-04
Cm-245	%S(j):		0.000E+00	2.639E-07	1.575E-06	3.131E-06	7.685E-06	2.386E-05	5.889E-05	1.085E-04
0Pu-241	Cf-249	1.000E+00	0.000E+00	6.271E-09	2.076E-07	7.557E-07	3.648E-06	1.925E-05	5.584E-05	1.079E-04
Pu-241	Cf-249	2.450E-05	0.000E+00	1.537E-13	5.086E-12	1.851E-11	8.939E-11	4.715E-10	1.368E-09	2.644E-09
Pu-241	Pu-241	1.000E+00	3.820E+03	3.640E+03	2.862E+03	2.144E+03	9.014E+02	3.101E+01	2.044E-03	4.753E-18
Pu-241	%S(j):		3.820E+03	3.640E+03	2.862E+03	2.144E+03	9.014E+02	3.101E+01	2.100E-03	1.079E-04
0Cf-249	Cf-249	2.450E-05	7.938E-08	7.922E-08	7.844E-08	7.752E-08	7.480E-08	6.512E-08	4.383E-08	1.096E-08
0Cm-245	Cf-249	2.450E-05	0.000E+00	6.466E-12	3.860E-11	7.672E-11	1.883E-10	5.846E-10	1.443E-09	2.659E-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	1.062E-02	6.175E-03

```
0Cm-247  Cf-251  1.000E+00    0.000E+00 5.952E-10 3.564E-09 7.111E-09 1.765E-08 5.727E-08 1.592E-07
4.126E-07
0Am-243  Cf-251  1.000E+00    0.000E+00 2.803E-14 1.005E-12 4.013E-12 2.495E-11 2.716E-10 2.308E-09
2.118E-08
0Pu-239  Cf-251  1.000E+00    0.000E+00 2.704E-19 5.798E-17 4.629E-16 7.200E-15 2.625E-13 6.778E-12
2.161E-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 9.169E+03 8.983E
+03
 Pu-239  %S(j):              9.250E+03 9.250E+03 9.248E+03 9.247E+03 9.242E+03 9.223E+03 9.169E+03 8.983E
+03
0U-235   Cf-251  1.000E+00    0.000E+00 3.241E-28 8.671E-26 1.368E-24 5.322E-23 6.473E-21 5.030E-19
5.393E-17
 U-235   Pu-239  1.000E+00    0.000E+00 9.109E-06 5.463E-05 1.092E-04 2.726E-04 9.031E-04 2.663E-03
8.356E-03
 U-235   U-235   1.000E+00    2.180E+02 2.180E+02 2.178E+02 2.176E+02 2.171E+02 2.149E+02 2.088E+02 1.887E
+02
 U-235   %S(j):              2.180E+02 2.180E+02 2.178E+02 2.176E+02 2.171E+02 2.149E+02 2.088E+02 1.887E
+02
0Pa-231  Cf-251  1.000E+00    0.000E+00 0.000E+00 8.360E-29 6.852E-28 4.853E-27 2.750E-24 6.445E-22
2.351E-19
 Pa-231  Pu-239  1.000E+00    0.000E+00 9.665E-11 3.470E-09 1.387E-08 8.658E-08 9.575E-07 8.507E-06
9.035E-05
 Pa-231  U-235   1.000E+00    0.000E+00 4.612E-03 2.766E-02 5.530E-02 1.380E-01 4.574E-01 1.350E+00 4.248E
+00
 Pa-231  %S(j):              0.000E+00 4.612E-03 2.766E-02 5.530E-02 1.380E-01 4.575E-01 1.350E+00 4.249E
+00
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 0.000E
+00
 Cf-252  Cf-252  8.005E-02    1.209E-08 9.295E-09 2.500E-09 5.169E-10 4.568E-12 4.693E-20 7.063E-43 0.000E
+00
 Cf-252  %S(j):              1.676E-08 1.289E-08 3.465E-09 7.166E-10 6.333E-12 6.506E-20 9.795E-43 0.000E
+00
0Cm-248  Cf-252  8.005E-02    0.000E+00 2.173E-14 7.460E-14 9.003E-14 9.400E-14 9.397E-14 9.379E-14
```

```
9.315E-14
 Cm-248  Cf-252  4.395E-08    0.000E+00 1.193E-20 4.096E-20 4.943E-20 5.161E-20 5.160E-20 5.150E-20
5.115E-20
 Cm-248  Cf-252  8.879E-01    0.000E+00 2.410E-13 8.275E-13 9.986E-13 1.043E-12 1.042E-12 1.040E-12
1.033E-12
 Cm-248  %S(j):              0.000E+00 2.627E-13 9.021E-13 1.089E-12 1.137E-12 1.136E-12 1.134E-12
1.126E-12
0Cf-252  Cf-252  1.111E-03    1.678E-10 1.290E-10 3.470E-11 7.176E-12 6.342E-14 6.515E-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 2.508E-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 6.515E-22 9.809E-45 0.000E
+00
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page 100
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 fffffff fffffff fffffffff   fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 Cm-248  Cf-252  1.111E-03    0.000E+00 3.016E-16 1.036E-15 1.250E-15 1.305E-15 1.305E-15 1.302E-15
1.293E-15
0Pu-244  Cf-252  1.111E-03    0.000E+00 1.325E-24 3.267E-23 9.157E-23 2.870E-22 1.054E-21 3.241E-21
1.086E-20
0Pu-244  Cf-252  4.395E-08    0.000E+00 5.239E-29 1.292E-27 3.622E-27 1.135E-26 4.167E-26 1.282E-25
4.295E-25
 Pu-244  %S(j):              0.000E+00 5.239E-29 1.292E-27 3.622E-27 1.135E-26 4.167E-26 1.282E-25
4.295E-25
```

```
0Pu-240  Cf-252  4.395E-08    0.000E+00 1.900E-33 3.061E-31 1.847E-30 1.608E-29 2.121E-28 1.993E-27
2.194E-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 5.206E-19 7.835E-42 0.000E
+00
0Pu-244  Cf-252  8.879E-01    0.000E+00 1.058E-21 2.610E-20 7.316E-20 2.293E-19 8.418E-19 2.589E-18
8.678E-18
0Pu-240  Cf-252  8.879E-01    0.000E+00 3.838E-26 6.184E-24 3.731E-23 3.249E-22 4.286E-21 4.026E-20
4.433E-19
0U-236   Cf-252  8.879E-01    0.000E+00 2.922E-34 2.938E-31 3.712E-30 8.689E-29 4.070E-27 1.168E-25
4.245E-24
 U-236   Pu-240  1.000E+00    0.000E+00 7.045E-05 4.224E-04 8.442E-04 2.106E-03 6.958E-03 2.036E-02
6.215E-02
 U-236   U-236   1.000E+00    4.070E-01 4.069E-01 4.066E-01 4.063E-01 4.052E-01 4.012E-01 3.897E-01
3.522E-01
 U-236   %S(j):              4.070E-01 4.070E-01 4.071E-01 4.071E-01 4.073E-01 4.081E-01 4.101E-01
4.144E-01
0Th-232  Cf-252  8.879E-01    0.000E+00 1.696E-39 3.745E-40 1.228E-39 2.892E-38 4.857E-36 4.285E-34
5.283E-32
 Th-232  Pu-240  1.000E+00    0.000E+00 1.743E-15 6.256E-14 2.501E-13 1.560E-12 1.723E-11 1.525E-10
1.599E-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 1.204E-10 2.407E-10 6.011E-10 1.993E-09 5.895E-09
1.870E-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 1.708E-39 4.127E-40 9.329E-40 1.194E-38 3.553E-36 3.845E-34
5.114E-32
 Ra-228  Pu-240  1.000E+00    0.000E+00 6.826E-17 1.272E-14 8.712E-14 9.300E-13 1.462E-11 1.444E-10
```

1.574E-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 8.250E-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
9.880E-03
 Ra-228 U-236   1.000E+00   0.000E+00 1.166E-12 3.472E-11 1.135E-10 4.395E-10 1.829E-09 5.735E-09
1.855E-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
0Th-228 Cf-252 8.879E-01   0.000E+00 1.166E-39 0.000E+00 0.000E+00 6.088E-39 3.155E-36 3.703E-34
5.058E-32
 Th-228 Pu-240 1.000E+00   0.000E+00 5.821E-18 4.856E-15 5.018E-14 7.456E-13 1.378E-11 1.418E-10
1.565E-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
9.880E-03
 Th-228 U-236   1.000E+00   0.000E+00 1.307E-13 1.646E-11 7.733E-11 3.865E-10 1.774E-09 5.682E-09
1.850E-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
0Cl-36   Cl-36   1.000E+00   2.790E-01 2.770E-01 2.671E-01 2.557E-01 2.243E-01 1.349E-01 3.153E-02
1.946E-04
1RESRAD-OFFSITE, Version 2.6   T´ Limit = 30 days   09/19/2012 14:58 Page 101
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File : INDUSTRIAL NO 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
 fffffff fffffff fffffffff   fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 Co-60   Co-60   1.000E+00    4.860E+00 4.258E+00 2.198E+00 9.942E-01 9.196E-02 8.762E-06 2.847E-17 0.000E
+00
0Cs-134  Cs-134  1.000E+00    2.620E-06 1.872E-06 3.489E-07 4.646E-08 1.096E-10 6.594E-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 1.524E+03 3.018E+02 2.956E+00
2.747E-07
0Eu-154  Eu-154  1.000E+00    9.920E-03 9.169E-03 6.184E-03 3.855E-03 9.338E-04 3.762E-06 5.410E-13
6.100E-37
0Eu-155  Eu-155  1.000E+00    8.720E-03 7.583E-03 3.771E-03 1.630E-03 1.318E-04 7.433E-09 5.399E-21 0.000E
+00
0H-3     H-3     1.000E+00    3.780E+04 3.548E+04 2.584E+04 1.767E+04 5.645E+03 6.675E+01 2.082E-04
1.115E-23
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 4.219E-01
2.813E-01
0Na-22   Na-22   1.000E+00    1.120E-03 8.581E-04 2.266E-04 4.584E-05 3.792E-07 3.013E-15 2.176E-38 0.000E
+00
0Pb-210  Pb-210  1.000E+00    2.850E+00 2.763E+00 2.365E+00 1.962E+00 1.121E+00 1.271E-01 2.530E-04
8.894E-14
 Pb-210  Pu-238  1.000E+00    0.000E+00 2.114E-13 2.609E-10 3.980E-09 1.359E-07 1.057E-05 3.246E-04
6.293E-03
 Pb-210  Pu-242  9.999E-01    0.000E+00 1.060E-24 2.301E-24 2.413E-23 2.339E-21 7.138E-19 9.555E-17
1.380E-14
 Pb-210  Ra-226  1.000E+00    0.000E+00 1.178E-01 6.541E-01 1.195E+00 2.317E+00 3.563E+00 3.426E+00 2.530E
+00
 Pb-210  Th-230  1.000E+00    0.000E+00 5.593E-04 1.907E-02 7.181E-02 3.785E-01 2.467E+00 9.146E+00 2.851E
+01
 Pb-210  U-234   1.000E+00    0.000E+00 8.601E-10 1.776E-07 1.357E-06 1.861E-05 4.528E-04 5.726E-03
6.457E-02
 Pb-210  U-238   9.999E-01    0.000E+00 4.542E-16 9.581E-13 1.476E-11 5.184E-10 4.511E-08 1.871E-06
```

```
7.515E-05
 Pb-210  %S(j):               2.850E+00 2.881E+00 3.038E+00 3.229E+00 3.817E+00 6.157E+00 1.258E+01 3.111E
+01
0Po-210  Pb-210  1.000E+00    0.000E+00 2.342E+00 2.406E+00 1.996E+00 1.141E+00 1.293E-01 2.574E-04
9.048E-14
 Po-210  Pu-238  1.000E+00    0.000E+00 5.910E-14 1.881E-10 3.358E-09 1.270E-07 1.038E-05 3.229E-04
6.285E-03
 Po-210  Pu-242  9.999E-01    0.000E+00 1.928E-24 3.065E-24 2.020E-23 2.146E-21 6.961E-19 9.480E-17
1.377E-14
 Po-210  Ra-226  1.000E+00    0.000E+00 6.406E-02 5.990E-01 1.150E+00 2.291E+00 3.561E+00 3.427E+00 2.530E
+00
 Po-210  Th-230  1.000E+00    0.000E+00 2.295E-04 1.599E-02 6.589E-02 3.667E-01 2.449E+00 9.128E+00 2.849E
+01
 Po-210  U-234   1.000E+00    0.000E+00 2.854E-10 1.376E-07 1.192E-06 1.769E-05 4.467E-04 5.704E-03
6.451E-02
 Po-210  U-238   9.999E-01    0.000E+00 0.000E+00 6.901E-13 1.244E-11 4.840E-10 4.424E-08 1.860E-06
7.503E-05
 Po-210  %S(j):               0.000E+00 2.406E+00 3.021E+00 3.212E+00 3.798E+00 6.139E+00 1.256E+01 3.110E
+01
0Pm-147  Pm-147  1.000E+00    1.370E-08 1.052E-08 2.808E-09 5.757E-10 4.955E-12 4.593E-20 5.157E-43 0.000E
+00
0Sm-147  Pm-147  1.000E+00    0.000E+00 7.870E-20 2.695E-19 3.248E-19 3.389E-19 3.388E-19 3.383E-19
3.365E-19
0Pu-238  Pu-238  1.840E-09    2.705E-05 2.684E-05 2.580E-05 2.460E-05 2.134E-05 1.227E-05 2.528E-06
1.002E-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 5.447E
+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 5.447E
+00
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page 102
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
fffffff	*fffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*	*fffffffff*
U-234	Pu-238	1.000E+00	0.000E+00	4.151E-02	2.441E-01	4.767E-01	1.111E+00	2.857E+00	4.640E+00	4.637E+00
U-234	Pu-242	9.999E-01	0.000E+00	5.557E-17	1.995E-15	7.972E-15	4.973E-14	5.487E-13	4.843E-12	5.027E-11
U-234	U-234	1.000E+00	4.260E+01	4.259E+01	4.256E+01	4.252E+01	4.241E+01	4.198E+01	4.076E+01	3.677E+01
U-234	U-238	9.999E-01	0.000E+00	1.516E-04	9.092E-04	1.817E-03	4.530E-03	1.495E-02	4.355E-02	1.311E-01
U-234	%S(j):		4.260E+01	4.264E+01	4.281E+01	4.300E+01	4.353E+01	4.485E+01	4.544E+01	4.153E+01
0Th-230	Pu-238	1.000E+00	0.000E+00	1.876E-07	6.648E-06	2.617E-05	1.560E-04	1.458E-03	8.639E-03	3.871E-02
Th-230	Pu-242	9.999E-01	0.000E+00	1.680E-22	3.595E-20	2.872E-19	4.480E-18	1.650E-16	4.389E-15	1.542E-13
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	2.300E-03	4.597E-03	1.148E-02	3.805E-02	1.124E-01	3.549E-01
Th-230	U-238	9.999E-01	0.000E+00	6.845E-10	2.457E-08	9.820E-08	6.126E-07	6.758E-06	5.962E-05	6.178E-04
Th-230	%S(j):		8.370E+01	8.370E+01	8.370E+01	8.370E+01	8.369E+01	8.366E+01	8.359E+01	8.334E+01
0Ra-226	Pu-238	1.000E+00	0.000E+00	2.723E-11	5.785E-09	4.566E-08	6.870E-07	2.214E-05	4.225E-04	6.729E-03
Ra-226	Pu-242	9.999E-01	0.000E+00	1.115E-24	2.507E-23	3.716E-22	1.453E-20	1.775E-18	1.396E-16	

```
1.557E-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 3.380E+00 2.495E
+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 2.988E-06 1.194E-05 7.432E-05 8.145E-04 7.050E-03
6.850E-02
 Ra-226  U-238   9.999E-01    0.000E+00 9.895E-14 2.130E-11 1.701E-10 2.647E-09 9.678E-08 2.519E-06
8.224E-05
 Ra-226  %S(j):              3.850E+00 3.885E+00 4.057E+00 4.264E+00 4.881E+00 7.234E+00 1.357E+01 3.185E
+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 2.139E
+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 1.360E-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 1.498E-05
1.496E-05
0U-238   Pu-242  5.400E-05    0.000E+00 2.111E-15 1.266E-14 2.531E-14 6.319E-14 2.096E-13 6.196E-13
1.963E-12
 U-238   Pu-242  9.999E-01    0.000E+00 3.909E-11 2.344E-10 4.687E-10 1.170E-09 3.881E-09 1.147E-08
3.636E-08
 U-238   U-238   5.400E-05    2.889E-03 2.889E-03 2.886E-03 2.884E-03 2.877E-03 2.848E-03 2.766E-03
2.500E-03
 U-238   %S(j):              2.889E-03 2.889E-03 2.886E-03 2.884E-03 2.877E-03 2.848E-03 2.766E-03
2.500E-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
2.514E-01
0Ru-106  Ru-106  1.000E+00    7.770E-09 3.881E-09 1.207E-10 1.873E-12 6.974E-18 5.213E-39 0.000E+00 0.000E
+00
```

```
0Sb-125  Sb-125  7.720E-01    4.169E-04 3.223E-04 8.898E-05 1.899E-05 1.845E-07 2.738E-15 1.180E-37 0.000E
+00
 Sb-125  Sb-125  2.280E-01    1.231E-04 9.518E-05 2.628E-05 5.608E-06 5.448E-08 8.087E-16 3.484E-38 0.000E
+00
 Sb-125  %S(j):               5.400E-04 4.175E-04 1.153E-04 2.460E-05 2.390E-07 3.547E-15 1.528E-37 0.000E
+00
0Te-125m Sb-125  2.280E-01    0.000E+00 9.921E-05 2.788E-05 5.949E-06 5.779E-08 8.579E-16 3.696E-38 0.000E
+00
0Sm-151  Sm-151  1.000E+00    2.110E-02 2.094E-02 2.015E-02 1.924E-02 1.674E-02 9.761E-03 2.089E-03
9.466E-06
1RESRAD-OFFSITE, Version 2.6         T´ Limit = 30 days         09/19/2012  14:58  Page 103
 Parent Dose Report
 Title : Industrial No Cap Hydro
 File  : INDUSTRIAL NO 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
 fffffff fffffff fffffffff    fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff fffffffff
fffffffff
 Sn-121m Sn-121m 1.000E+00    5.020E-01 4.957E-01 4.654E-01 4.315E-01 3.439E-01 1.422E-01 1.142E-02
1.675E-06
0Sn-126  Sn-126  1.000E+00    1.220E-01 1.220E-01 1.220E-01 1.220E-01 1.219E-01 1.218E-01 1.215E-01
1.202E-01
0Sr-90   Sr-90   1.000E+00    4.300E+02 4.199E+02 3.728E+02 3.231E+02 2.105E+02 3.976E+01 3.400E-01
1.966E-08
0U-238   U-238   9.999E-01    5.350E+01 5.349E+01 5.345E+01 5.340E+01 5.327E+01 5.273E+01 5.123E+01 4.630E
+01
 õõõõõõõ õõõõõõõ õõõõõõõõõ    õõõõõõõõõ õõõõõõõõõ õõõõõõõõõ õõõõõõõõõ õõõõõõõõõ õõõõõõõõõ õõõõõõõõõ
õõõõõõõõõ
 THF(i) is the thread fraction of the parent nuclide.
```

Parent Dose Report
Title : Industrial No Cap Hydro
File : INDUSTRIAL NO CAP HYDRO.ROF

Run Time Information

ResOCalc.EXE execution began at 14:58 on 09/19/2012

ResOCalc.EXE execution ended at 14:59 on 09/19/2012

ResOCalc.EXE execution time 32.234 seconds