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Part VI: Uncertainty Analysis

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Probabilistic Input

Number of Sample Runs: 3000

| Number | Name | Distribution | Parameters | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|-----------|-------------------------|------------|-------|-------|---------|-------|---------|-------|--------|-------|--------|-------|--------|-------|---------|-------|-------|---|------|------|-----|----|-----|----|-----|----|---|
| 1 | VCZ | CONTINUOUS LOGARITHMIC4 | 5.E-8 | 0 | .0007 | .22 | .005 | .95 | .2 | 1 | | | | | | | | | | | | | | | | | | |
| 2 | BCZ | BOUNDED LOGNORMAL-N | 1.28 | .334 | 1.28 | 10.1 | | | | | | | | | | | | | | | | | | | | | | |
| 3 | EVAPTR | UNIFORM | .5 | .99 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | WIND | UNIFORM | 2.8 | 4.7 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | RUNOFF | UNIFORM | .1 | .8 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | BUZ(1) | BOUNDED LOGNORMAL-N | 1.28 | .334 | 1.28 | 10.1 | | | | | | | | | | | | | | | | | | | | | | |
| 7 | MLINH | CONTINUOUS LINEAR | 8 | 0 | 0 | .000008 | .0151 | .000016 | .1365 | .00003 | .8119 | .00004 | .9495 | .00006 | .9937 | .000076 | .9983 | .0001 | 1 | | | | | | | | | |
| 8 | SHF3 | UNIFORM | .15 | .95 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | DM | TRIANGULAR | 0 | .15 | | | | | | | | | | | | | | | | .6 | | | | | | | | |
| 10 | DROOT | UNIFORM | .3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | YV(1) | TRUNCATED LOGNORMAL-N | .56 | .48 | | | | | | | | | | | | | | | | .001 | .999 | | | | | | | |
| 12 | WLAM | TRIANGULAR | 5.1 | 18 | | | | | | | | | | | | | | | | 84 | | | | | | | | |
| 13 | RWET(2) | TRIANGULAR | .06 | .67 | | | | | | | | | | | | | | | | .95 | | | | | | | | |
| 14 | HUMID | TRUNCATED LOGNORMAL-N | 1.98 | .334 | .001 | .999 | | | | | | | | | | | | | | | | | | | | | | |
| 15 | VCV | CONTINUOUS LOGARITHMIC4 | 5.E-8 | 0 | .0007 | .22 | | | | | | | | | | | | | | .005 | .95 | .2 | 1 | | | | | |
| 16 | DCACTC(1) | LOGNORMAL-N | 5.77 | .0001 | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | DCACTS(1) | LOGNORMAL-N | 5.77 | .0001 | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | DWIBWT | CONTINUOUS LINEAR | 6 | 5 | 0 | 24 | | | | | | | | | | | | | | .29 | 43 | .66 | 53 | .68 | 76 | .95 | 89 | 1 |

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA FE-55.RAD

Probabilistic Total Dose Summary

| Nuclide (j) | Peak Time | Peak Dose | DOSE(j,t), mrem/yr | | | | | | | |
|----------------|--------------|--------------|--------------------|----------|----------|----------|----------|----------|----------|----------|
| | | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | | |
| Fe-55 | | | | | | | | | | |
| Min | 0.00E+00 | 2.57E-07 | 2.57E-07 | 2.04E-07 | 1.26E-07 | 1.80E-08 | 2.69E-11 | 4.21E-19 | 0.00E+00 | 0.00E+00 |
| Max | 9.31E+00 | 8.35E-06 | 7.87E-06 | 6.06E-06 | 3.59E-06 | 2.72E-06 | 3.45E-08 | 2.22E-16 | 0.00E+00 | 0.00E+00 |
| Avg | 4.07E-02 | 2.17E-06 | 2.16E-06 | 1.66E-06 | 9.98E-07 | 1.72E-07 | 9.95E-10 | 1.43E-17 | 0.00E+00 | 0.00E+00 |
| Std | 5.01E-01 | 1.16E-06 | 1.15E-06 | 8.83E-07 | 5.25E-07 | 1.41E-07 | 9.68E-10 | 9.34E-18 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | | | |
| Min | 0.00E+00 | 2.57E-07 | 2.57E-07 | 2.04E-07 | 1.26E-07 | 1.80E-08 | 2.69E-11 | 4.21E-19 | 0.00E+00 | 0.00E+00 |
| Max | 9.31E+00 | 8.35E-06 | 7.87E-06 | 6.06E-06 | 3.59E-06 | 2.72E-06 | 3.45E-08 | 2.22E-16 | 0.00E+00 | 0.00E+00 |
| Avg | 4.07E-02 | 2.17E-06 | 2.16E-06 | 1.66E-06 | 9.98E-07 | 1.72E-07 | 9.95E-10 | 1.43E-17 | 0.00E+00 | 0.00E+00 |
| Std | 5.01E-01 | 1.16E-06 | 1.15E-06 | 8.83E-07 | 5.25E-07 | 1.41E-07 | 9.68E-10 | 9.34E-18 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | | |

ALL is total dose summed for all nuclides.

Probabilistic Risk Summary

| Nuclide | | RISK(j,t) | | | | | | | |
|---------|----|-----------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 1.26E-11 | 1.00E-11 | 6.22E-12 | 9.31E-13 | 1.37E-15 | 2.14E-23 | 0.00E+00 | 0.00E+00 |
| Max | | 4.47E-10 | 3.44E-10 | 2.04E-10 | 1.79E-10 | 2.25E-12 | 1.44E-20 | 0.00E+00 | 0.00E+00 |
| Avg | | 1.26E-10 | 9.75E-11 | 5.83E-11 | 1.01E-11 | 5.70E-14 | 7.78E-22 | 0.00E+00 | 0.00E+00 |
| Std | | 6.72E-11 | 5.16E-11 | 3.06E-11 | 9.00E-12 | 6.16E-14 | 5.53E-22 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 1.26E-11 | 1.00E-11 | 6.22E-12 | 9.31E-13 | 1.37E-15 | 2.14E-23 | 0.00E+00 | 0.00E+00 |
| Max | | 4.47E-10 | 3.44E-10 | 2.04E-10 | 1.79E-10 | 2.25E-12 | 1.44E-20 | 0.00E+00 | 0.00E+00 |
| Avg | | 1.26E-10 | 9.75E-11 | 5.83E-11 | 1.01E-11 | 5.70E-14 | 7.78E-22 | 0.00E+00 | 0.00E+00 |
| Std | | 6.72E-11 | 5.16E-11 | 3.06E-11 | 9.00E-12 | 6.16E-14 | 5.53E-22 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total risk summed for all nuclides.

Probabilistic Dose vs Pathway(i): Ground External

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Inhalation (w/o Radon)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 2.79E-10 | 8.24E-10 | 5.31E-12 | 3.01E-20 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 1.49E-13 | 2.08E-12 | 1.15E-14 | 6.70E-23 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 5.92E-12 | 2.82E-11 | 1.46E-13 | 8.87E-22 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 2.79E-10 | 8.24E-10 | 5.31E-12 | 3.01E-20 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 1.49E-13 | 2.08E-12 | 1.15E-14 | 6.70E-23 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 5.92E-12 | 2.82E-11 | 1.46E-13 | 8.87E-22 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Radon (Water Ind.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Plant (Water Ind.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 2.94E-06 | 2.27E-06 | 2.08E-06 | 5.59E-07 | 2.82E-09 | 3.39E-17 | 0.00E+00 | 0.00E+00 |
| Avg | | 1.14E-06 | 8.73E-07 | 5.14E-07 | 7.85E-08 | 3.71E-10 | 3.34E-18 | 0.00E+00 | 0.00E+00 |
| Std | | 7.73E-07 | 5.90E-07 | 3.49E-07 | 5.44E-08 | 2.82E-10 | 3.78E-18 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 2.94E-06 | 2.27E-06 | 2.08E-06 | 5.59E-07 | 2.82E-09 | 3.39E-17 | 0.00E+00 | 0.00E+00 |
| Avg | | 1.14E-06 | 8.73E-07 | 5.14E-07 | 7.85E-08 | 3.71E-10 | 3.34E-18 | 0.00E+00 | 0.00E+00 |
| Std | | 7.73E-07 | 5.90E-07 | 3.49E-07 | 5.44E-08 | 2.82E-10 | 3.78E-18 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Meat (Water Ind.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.67E-07 | 1.29E-07 | 1.46E-06 | 2.16E-06 | 3.00E-08 | 1.90E-16 | 0.00E+00 | 0.00E+00 |
| Avg | | 6.50E-08 | 4.97E-08 | 3.01E-08 | 1.27E-08 | 8.02E-11 | 5.95E-19 | 0.00E+00 | 0.00E+00 |
| Std | | 4.40E-08 | 3.36E-08 | 3.88E-08 | 9.65E-08 | 7.38E-10 | 5.14E-18 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.67E-07 | 1.29E-07 | 1.46E-06 | 2.16E-06 | 3.00E-08 | 1.90E-16 | 0.00E+00 | 0.00E+00 |
| Avg | | 6.50E-08 | 4.97E-08 | 3.01E-08 | 1.27E-08 | 8.02E-11 | 5.95E-19 | 0.00E+00 | 0.00E+00 |
| Std | | 4.40E-08 | 3.36E-08 | 3.88E-08 | 9.65E-08 | 7.38E-10 | 5.14E-18 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Milk (Water Ind.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.69E-08 | 1.31E-08 | 7.03E-08 | 9.38E-08 | 1.30E-09 | 8.27E-18 | 0.00E+00 | 0.00E+00 |
| Avg | | 6.58E-09 | 5.03E-09 | 3.00E-09 | 8.09E-10 | 4.70E-12 | 3.68E-20 | 0.00E+00 | 0.00E+00 |
| Std | | 4.45E-09 | 3.40E-09 | 2.56E-09 | 4.20E-09 | 3.21E-11 | 2.25E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 1.69E-08 | 1.31E-08 | 7.03E-08 | 9.38E-08 | 1.30E-09 | 8.27E-18 | 0.00E+00 | 0.00E+00 |
| Avg | | 6.58E-09 | 5.03E-09 | 3.00E-09 | 8.09E-10 | 4.70E-12 | 3.68E-20 | 0.00E+00 | 0.00E+00 |
| Std | | 4.45E-09 | 3.40E-09 | 2.56E-09 | 4.20E-09 | 3.21E-11 | 2.25E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA FE-55.RAD

Probabilistic Dose vs Pathway(i): Soil Ingestion

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 1.14E-07 | 1.57E-07 | 2.18E-09 | 1.38E-17 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 6.92E-11 | 5.99E-10 | 4.30E-12 | 2.95E-20 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 2.68E-09 | 6.99E-09 | 5.36E-11 | 3.73E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 1.14E-07 | 1.57E-07 | 2.18E-09 | 1.38E-17 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 6.92E-11 | 5.99E-10 | 4.30E-12 | 2.95E-20 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 2.68E-09 | 6.99E-09 | 5.36E-11 | 3.73E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Water Ingestion

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA FE-55.RAD

Probabilistic Dose vs Pathway(i): Fish Ingestion

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| CALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Radon (Water Dep.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| ALL | | | | | | | | | |
| Min | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA FE-55.RAD

Probabilistic Dose vs Pathway(i): Plant (Water Dep.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 3.80E-09 | 3.02E-09 | 1.89E-09 | 3.58E-10 | 1.32E-12 | 1.45E-20 | 0.00E+00 | 0.00E+00 |
| Max | | 8.26E-07 | 6.37E-07 | 3.80E-07 | 6.29E-08 | 3.69E-10 | 6.49E-18 | 0.00E+00 | 0.00E+00 |
| Avg | | 7.51E-08 | 5.88E-08 | 3.60E-08 | 6.37E-09 | 4.26E-11 | 8.21E-19 | 0.00E+00 | 0.00E+00 |
| Std | | 8.64E-08 | 6.71E-08 | 4.04E-08 | 6.88E-09 | 4.32E-11 | 7.74E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 3.80E-09 | 3.02E-09 | 1.89E-09 | 3.58E-10 | 1.32E-12 | 1.45E-20 | 0.00E+00 | 0.00E+00 |
| Max | | 8.26E-07 | 6.37E-07 | 3.80E-07 | 6.29E-08 | 3.69E-10 | 6.49E-18 | 0.00E+00 | 0.00E+00 |
| Avg | | 7.51E-08 | 5.88E-08 | 3.60E-08 | 6.37E-09 | 4.26E-11 | 8.21E-19 | 0.00E+00 | 0.00E+00 |
| Std | | 8.64E-08 | 6.71E-08 | 4.04E-08 | 6.88E-09 | 4.32E-11 | 7.74E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA FE-55.RAD

Probabilistic Dose vs Pathway(i): Meat (Water Dep.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 8.74E-09 | 6.84E-09 | 4.15E-09 | 7.19E-10 | 1.14E-12 | 1.77E-20 | 0.00E+00 | 0.00E+00 |
| Max | | 2.63E-07 | 2.03E-07 | 1.21E-07 | 1.98E-08 | 1.12E-10 | 1.61E-18 | 0.00E+00 | 0.00E+00 |
| Avg | | 3.83E-08 | 3.00E-08 | 1.83E-08 | 3.24E-09 | 2.17E-11 | 4.18E-19 | 0.00E+00 | 0.00E+00 |
| Std | | 3.34E-08 | 2.59E-08 | 1.55E-08 | 2.60E-09 | 1.59E-11 | 2.74E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 8.74E-09 | 6.84E-09 | 4.15E-09 | 7.19E-10 | 1.14E-12 | 1.77E-20 | 0.00E+00 | 0.00E+00 |
| Max | | 2.63E-07 | 2.03E-07 | 1.21E-07 | 1.98E-08 | 1.12E-10 | 1.61E-18 | 0.00E+00 | 0.00E+00 |
| Avg | | 3.83E-08 | 3.00E-08 | 1.83E-08 | 3.24E-09 | 2.17E-11 | 4.18E-19 | 0.00E+00 | 0.00E+00 |
| Std | | 3.34E-08 | 2.59E-08 | 1.55E-08 | 2.60E-09 | 1.59E-11 | 2.74E-19 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

Probabilistic Dose vs Pathway(i): Milk (Water Dep.)

| Nuclide | | DOSE(i,j,t), mrem/yr | | | | | | | |
|---------|----|----------------------|----------|----------|----------|----------|----------|----------|----------|
| (j) | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| <hr/> | | | | | | | | | |
| Fe-55 | | | | | | | | | |
| Min | | 5.38E-10 | 4.26E-10 | 2.59E-10 | 4.49E-11 | 8.17E-14 | 1.09E-21 | 0.00E+00 | 0.00E+00 |
| Max | | 2.08E-08 | 1.61E-08 | 9.58E-09 | 1.57E-09 | 8.89E-12 | 1.27E-19 | 0.00E+00 | 0.00E+00 |
| Avg | | 2.66E-09 | 2.08E-09 | 1.27E-09 | 2.26E-10 | 1.51E-12 | 2.91E-20 | 0.00E+00 | 0.00E+00 |
| Std | | 2.38E-09 | 1.85E-09 | 1.11E-09 | 1.86E-10 | 1.14E-12 | 1.97E-20 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |
| ALL | | | | | | | | | |
| Min | | 5.38E-10 | 4.26E-10 | 2.59E-10 | 4.49E-11 | 8.17E-14 | 1.09E-21 | 0.00E+00 | 0.00E+00 |
| Max | | 2.08E-08 | 1.61E-08 | 9.58E-09 | 1.57E-09 | 8.89E-12 | 1.27E-19 | 0.00E+00 | 0.00E+00 |
| Avg | | 2.66E-09 | 2.08E-09 | 1.27E-09 | 2.26E-10 | 1.51E-12 | 2.91E-20 | 0.00E+00 | 0.00E+00 |
| Std | | 2.38E-09 | 1.85E-09 | 1.11E-09 | 1.86E-10 | 1.14E-12 | 1.97E-20 | 0.00E+00 | 0.00E+00 |
| <hr/> | | | | | | | | | |

ALL is total pathway dose summed for all nuclides.

| Cumulative Probability Summary for: Total Dose Over Pathways | | | | | | | | | |
|--|------------------|----------|----------|----------|----------|----------|----------|----------|----------|
| Cumulative | Dose(t), mrem/yr | | | | | | | | |
| Probability | t= | 0.00E+00 | 1.00E+00 | 3.00E+00 | 1.00E+01 | 3.00E+01 | 1.00E+02 | 3.00E+02 | 1.00E+03 |
| | | | | | | | | | |
| 0.025 | | 3.35E-07 | 2.64E-07 | 1.62E-07 | 2.88E-08 | 1.86E-10 | 3.46E-18 | 0.00E+00 | 0.00E+00 |
| 0.050 | | 3.80E-07 | 2.99E-07 | 1.86E-07 | 3.37E-08 | 2.34E-10 | 4.57E-18 | 0.00E+00 | 0.00E+00 |
| 0.075 | | 5.15E-07 | 4.10E-07 | 2.53E-07 | 4.50E-08 | 2.94E-10 | 5.33E-18 | 0.00E+00 | 0.00E+00 |
| 0.100 | | 6.30E-07 | 4.98E-07 | 3.07E-07 | 5.59E-08 | 3.73E-10 | 5.82E-18 | 0.00E+00 | 0.00E+00 |
| 0.125 | | 7.72E-07 | 6.09E-07 | 3.81E-07 | 7.14E-08 | 4.54E-10 | 6.28E-18 | 0.00E+00 | 0.00E+00 |
| 0.150 | | 9.52E-07 | 7.57E-07 | 4.73E-07 | 8.56E-08 | 5.00E-10 | 6.69E-18 | 0.00E+00 | 0.00E+00 |
| 0.175 | | 1.22E-06 | 9.51E-07 | 5.70E-07 | 9.30E-08 | 5.31E-10 | 7.08E-18 | 0.00E+00 | 0.00E+00 |
| 0.200 | | 1.30E-06 | 1.00E-06 | 6.01E-07 | 9.84E-08 | 5.50E-10 | 7.42E-18 | 0.00E+00 | 0.00E+00 |
| 0.225 | | 1.37E-06 | 1.05E-06 | 6.34E-07 | 1.04E-07 | 5.81E-10 | 7.91E-18 | 0.00E+00 | 0.00E+00 |
| 0.250 | | 1.44E-06 | 1.12E-06 | 6.70E-07 | 1.09E-07 | 6.14E-10 | 8.37E-18 | 0.00E+00 | 0.00E+00 |
| 0.275 | | 1.51E-06 | 1.17E-06 | 7.02E-07 | 1.14E-07 | 6.38E-10 | 8.75E-18 | 0.00E+00 | 0.00E+00 |
| 0.300 | | 1.57E-06 | 1.21E-06 | 7.28E-07 | 1.18E-07 | 6.61E-10 | 9.14E-18 | 0.00E+00 | 0.00E+00 |
| 0.325 | | 1.63E-06 | 1.26E-06 | 7.53E-07 | 1.23E-07 | 6.87E-10 | 9.62E-18 | 0.00E+00 | 0.00E+00 |
| 0.350 | | 1.67E-06 | 1.29E-06 | 7.71E-07 | 1.26E-07 | 7.15E-10 | 9.99E-18 | 0.00E+00 | 0.00E+00 |
| 0.375 | | 1.72E-06 | 1.33E-06 | 7.97E-07 | 1.31E-07 | 7.37E-10 | 1.04E-17 | 0.00E+00 | 0.00E+00 |
| 0.400 | | 1.78E-06 | 1.38E-06 | 8.24E-07 | 1.35E-07 | 7.62E-10 | 1.07E-17 | 0.00E+00 | 0.00E+00 |
| 0.425 | | 1.84E-06 | 1.42E-06 | 8.49E-07 | 1.39E-07 | 7.82E-10 | 1.11E-17 | 0.00E+00 | 0.00E+00 |
| 0.450 | | 1.90E-06 | 1.47E-06 | 8.75E-07 | 1.43E-07 | 8.03E-10 | 1.14E-17 | 0.00E+00 | 0.00E+00 |
| 0.475 | | 1.95E-06 | 1.50E-06 | 9.00E-07 | 1.47E-07 | 8.25E-10 | 1.18E-17 | 0.00E+00 | 0.00E+00 |
| 0.500 | | 2.01E-06 | 1.55E-06 | 9.26E-07 | 1.52E-07 | 8.49E-10 | 1.22E-17 | 0.00E+00 | 0.00E+00 |
| 0.525 | | 2.07E-06 | 1.60E-06 | 9.48E-07 | 1.56E-07 | 8.76E-10 | 1.26E-17 | 0.00E+00 | 0.00E+00 |
| 0.550 | | 2.14E-06 | 1.64E-06 | 9.85E-07 | 1.60E-07 | 9.08E-10 | 1.30E-17 | 0.00E+00 | 0.00E+00 |
| 0.575 | | 2.21E-06 | 1.71E-06 | 1.02E-06 | 1.66E-07 | 9.44E-10 | 1.35E-17 | 0.00E+00 | 0.00E+00 |
| 0.600 | | 2.28E-06 | 1.76E-06 | 1.05E-06 | 1.71E-07 | 9.74E-10 | 1.41E-17 | 0.00E+00 | 0.00E+00 |
| 0.625 | | 2.34E-06 | 1.81E-06 | 1.08E-06 | 1.77E-07 | 1.00E-09 | 1.47E-17 | 0.00E+00 | 0.00E+00 |
| 0.650 | | 2.42E-06 | 1.87E-06 | 1.12E-06 | 1.84E-07 | 1.04E-09 | 1.53E-17 | 0.00E+00 | 0.00E+00 |
| 0.675 | | 2.51E-06 | 1.93E-06 | 1.16E-06 | 1.91E-07 | 1.08E-09 | 1.59E-17 | 0.00E+00 | 0.00E+00 |
| 0.700 | | 2.61E-06 | 2.02E-06 | 1.21E-06 | 1.99E-07 | 1.12E-09 | 1.69E-17 | 0.00E+00 | 0.00E+00 |
| 0.725 | | 2.70E-06 | 2.09E-06 | 1.25E-06 | 2.05E-07 | 1.17E-09 | 1.76E-17 | 0.00E+00 | 0.00E+00 |
| 0.750 | | 2.80E-06 | 2.16E-06 | 1.29E-06 | 2.13E-07 | 1.21E-09 | 1.87E-17 | 0.00E+00 | 0.00E+00 |
| 0.775 | | 2.90E-06 | 2.24E-06 | 1.34E-06 | 2.20E-07 | 1.27E-09 | 1.98E-17 | 0.00E+00 | 0.00E+00 |
| 0.800 | | 3.04E-06 | 2.35E-06 | 1.41E-06 | 2.29E-07 | 1.33E-09 | 2.11E-17 | 0.00E+00 | 0.00E+00 |
| 0.825 | | 3.15E-06 | 2.43E-06 | 1.44E-06 | 2.38E-07 | 1.38E-09 | 2.22E-17 | 0.00E+00 | 0.00E+00 |
| 0.850 | | 3.26E-06 | 2.51E-06 | 1.50E-06 | 2.47E-07 | 1.44E-09 | 2.33E-17 | 0.00E+00 | 0.00E+00 |
| 0.875 | | 3.40E-06 | 2.62E-06 | 1.56E-06 | 2.60E-07 | 1.52E-09 | 2.41E-17 | 0.00E+00 | 0.00E+00 |
| 0.900 | | 3.61E-06 | 2.78E-06 | 1.66E-06 | 2.80E-07 | 1.64E-09 | 2.49E-17 | 0.00E+00 | 0.00E+00 |
| 0.925 | | 3.89E-06 | 3.00E-06 | 1.81E-06 | 3.03E-07 | 1.76E-09 | 2.62E-17 | 0.00E+00 | 0.00E+00 |
| 0.950 | | 4.25E-06 | 3.28E-06 | 1.97E-06 | 3.30E-07 | 1.90E-09 | 2.76E-17 | 0.00E+00 | 0.00E+00 |
| 0.975 | | 4.86E-06 | 3.75E-06 | 2.24E-06 | 3.96E-07 | 2.26E-09 | 3.19E-17 | 0.00E+00 | 0.00E+00 |
| 1.000 | | 7.87E-06 | 6.06E-06 | 3.59E-06 | 2.72E-06 | 3.45E-08 | 2.22E-16 | 0.00E+00 | 0.00E+00 |

| Summary of dose at graphical times, reptition 1 | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|----------|
| Time | Dose statistics at graphical times, mrem/yr | | | | | | | |
| Years | Minimum | Maximum | Mean | Median | 90% | 95% | 97.5% | 99% |
| 0.00E+00 | 2.57E-07 | 7.25E-06 | 2.16E-06 | 2.02E-06 | 3.58E-06 | 4.21E-06 | 4.87E-06 | 5.67E-06 |
| 1.00E+00 | 2.04E-07 | 5.59E-06 | 1.67E-06 | 1.56E-06 | 2.77E-06 | 3.25E-06 | 3.79E-06 | 4.37E-06 |
| 1.06E+00 | 2.02E-07 | 5.50E-06 | 1.64E-06 | 1.54E-06 | 2.72E-06 | 3.20E-06 | 3.74E-06 | 4.30E-06 |
| 1.12E+00 | 1.99E-07 | 5.42E-06 | 1.62E-06 | 1.51E-06 | 2.68E-06 | 3.15E-06 | 3.68E-06 | 4.23E-06 |
| 1.19E+00 | 1.96E-07 | 5.32E-06 | 1.59E-06 | 1.49E-06 | 2.64E-06 | 3.10E-06 | 3.62E-06 | 4.16E-06 |
| 1.25E+00 | 1.93E-07 | 5.23E-06 | 1.56E-06 | 1.46E-06 | 2.59E-06 | 3.05E-06 | 3.55E-06 | 4.09E-06 |
| 1.33E+00 | 1.90E-07 | 5.13E-06 | 1.53E-06 | 1.43E-06 | 2.55E-06 | 2.99E-06 | 3.49E-06 | 4.01E-06 |
| 1.40E+00 | 1.86E-07 | 5.03E-06 | 1.50E-06 | 1.41E-06 | 2.50E-06 | 2.93E-06 | 3.42E-06 | 3.93E-06 |
| 1.49E+00 | 1.83E-07 | 4.92E-06 | 1.47E-06 | 1.38E-06 | 2.44E-06 | 2.87E-06 | 3.35E-06 | 3.85E-06 |
| 1.57E+00 | 1.79E-07 | 4.81E-06 | 1.44E-06 | 1.35E-06 | 2.38E-06 | 2.81E-06 | 3.27E-06 | 3.77E-06 |
| 1.66E+00 | 1.76E-07 | 4.70E-06 | 1.41E-06 | 1.32E-06 | 2.33E-06 | 2.74E-06 | 3.20E-06 | 3.68E-06 |
| 1.76E+00 | 1.72E-07 | 4.58E-06 | 1.37E-06 | 1.28E-06 | 2.27E-06 | 2.67E-06 | 3.12E-06 | 3.59E-06 |
| 1.86E+00 | 1.68E-07 | 4.46E-06 | 1.34E-06 | 1.25E-06 | 2.22E-06 | 2.60E-06 | 3.03E-06 | 3.49E-06 |
| 1.97E+00 | 1.64E-07 | 4.34E-06 | 1.30E-06 | 1.22E-06 | 2.16E-06 | 2.53E-06 | 2.95E-06 | 3.40E-06 |
| 2.09E+00 | 1.59E-07 | 4.21E-06 | 1.26E-06 | 1.18E-06 | 2.10E-06 | 2.47E-06 | 2.86E-06 | 3.30E-06 |
| 2.21E+00 | 1.55E-07 | 4.08E-06 | 1.22E-06 | 1.14E-06 | 2.03E-06 | 2.39E-06 | 2.79E-06 | 3.19E-06 |
| 2.34E+00 | 1.50E-07 | 3.94E-06 | 1.18E-06 | 1.11E-06 | 1.97E-06 | 2.31E-06 | 2.70E-06 | 3.09E-06 |
| 2.47E+00 | 1.45E-07 | 3.81E-06 | 1.14E-06 | 1.07E-06 | 1.90E-06 | 2.23E-06 | 2.60E-06 | 2.98E-06 |
| 2.62E+00 | 1.40E-07 | 3.67E-06 | 1.10E-06 | 1.03E-06 | 1.83E-06 | 2.15E-06 | 2.50E-06 | 2.87E-06 |
| 2.77E+00 | 1.35E-07 | 3.52E-06 | 1.06E-06 | 9.89E-07 | 1.76E-06 | 2.07E-06 | 2.40E-06 | 2.76E-06 |
| 2.93E+00 | 1.30E-07 | 3.38E-06 | 1.02E-06 | 9.48E-07 | 1.69E-06 | 1.98E-06 | 2.30E-06 | 2.65E-06 |
| 3.00E+00 | 1.27E-07 | 3.32E-06 | 9.99E-07 | 9.31E-07 | 1.66E-06 | 1.95E-06 | 2.26E-06 | 2.60E-06 |
| 3.310E+00 | 1.24E-07 | 3.23E-06 | 9.73E-07 | 9.06E-07 | 1.62E-06 | 1.90E-06 | 2.23E-06 | 2.54E-06 |
| 3.328E+00 | 1.19E-07 | 3.08E-06 | 9.29E-07 | 8.65E-07 | 1.54E-06 | 1.82E-06 | 2.14E-06 | 2.44E-06 |
| 3.48E+00 | 1.13E-07 | 2.96E-06 | 8.85E-07 | 8.24E-07 | 1.47E-06 | 1.73E-06 | 2.04E-06 | 2.32E-06 |
| 3.68E+00 | 1.08E-07 | 2.88E-06 | 8.40E-07 | 7.81E-07 | 1.39E-06 | 1.64E-06 | 1.93E-06 | 2.20E-06 |
| 3.89E+00 | 1.02E-07 | 2.71E-06 | 7.96E-07 | 7.40E-07 | 1.32E-06 | 1.55E-06 | 1.82E-06 | 2.08E-06 |
| 4.12E+00 | 9.64E-08 | 2.55E-06 | 7.51E-07 | 6.97E-07 | 1.24E-06 | 1.47E-06 | 1.72E-06 | 1.96E-06 |
| 4.36E+00 | 9.08E-08 | 2.38E-06 | 7.06E-07 | 6.56E-07 | 1.17E-06 | 1.38E-06 | 1.63E-06 | 1.90E-06 |
| 4.61E+00 | 8.52E-08 | 2.29E-06 | 6.63E-07 | 6.15E-07 | 1.10E-06 | 1.29E-06 | 1.55E-06 | 1.78E-06 |
| 4.88E+00 | 7.97E-08 | 3.66E-06 | 6.21E-07 | 5.73E-07 | 1.02E-06 | 1.21E-06 | 1.45E-06 | 1.66E-06 |
| 5.17E+00 | 7.42E-08 | 5.00E-06 | 5.80E-07 | 5.32E-07 | 9.55E-07 | 1.14E-06 | 1.39E-06 | 1.57E-06 |
| 5.47E+00 | 6.88E-08 | 5.40E-06 | 5.40E-07 | 4.91E-07 | 8.84E-07 | 1.05E-06 | 1.29E-06 | 1.46E-06 |
| 5.78E+00 | 6.36E-08 | 4.93E-06 | 4.99E-07 | 4.53E-07 | 8.15E-07 | 9.65E-07 | 1.19E-06 | 1.35E-06 |
| 6.12E+00 | 5.84E-08 | 4.46E-06 | 4.60E-07 | 4.15E-07 | 7.48E-07 | 8.84E-07 | 1.09E-06 | 1.36E-06 |
| 6.48E+00 | 5.34E-08 | 4.01E-06 | 4.21E-07 | 3.78E-07 | 6.82E-07 | 8.08E-07 | 9.92E-07 | 1.18E-06 |
| 6.86E+00 | 4.86E-08 | 4.53E-06 | 3.84E-07 | 3.43E-07 | 6.20E-07 | 7.32E-07 | 9.04E-07 | 1.13E-06 |
| 7.26E+00 | 4.40E-08 | 4.32E-06 | 3.47E-07 | 3.10E-07 | 5.59E-07 | 6.59E-07 | 8.14E-07 | 1.02E-06 |
| 7.68E+00 | 3.96E-08 | 3.77E-06 | 3.12E-07 | 2.78E-07 | 5.01E-07 | 5.95E-07 | 7.34E-07 | 9.62E-07 |
| 8.13E+00 | 3.54E-08 | 3.23E-06 | 2.78E-07 | 2.48E-07 | 4.47E-07 | 5.30E-07 | 6.48E-07 | 8.49E-07 |
| 8.60E+00 | 3.14E-08 | 2.75E-06 | 2.47E-07 | 2.19E-07 | 3.99E-07 | 4.74E-07 | 5.76E-07 | 7.74E-07 |
| 9.10E+00 | 2.77E-08 | 2.31E-06 | 2.18E-07 | 1.93E-07 | 3.53E-07 | 4.14E-07 | 5.05E-07 | 6.80E-07 |
| 9.63E+00 | 2.43E-08 | 2.23E-06 | 1.90E-07 | 1.68E-07 | 3.08E-07 | 3.61E-07 | 4.39E-07 | 5.92E-07 |
| 1.00E+01 | 2.21E-08 | 1.94E-06 | 1.73E-07 | 1.53E-07 | 2.79E-07 | 3.30E-07 | 4.01E-07 | 5.38E-07 |
| 1.02E+01 | 2.11E-08 | 1.78E-06 | 1.65E-07 | 1.45E-07 | 2.66E-07 | 3.14E-07 | 3.82E-07 | 5.12E-07 |
| 1.08E+01 | 1.82E-08 | 1.34E-06 | 1.41E-07 | 1.25E-07 | 2.28E-07 | 2.69E-07 | 3.27E-07 | 4.38E-07 |
| 1.14E+01 | 1.55E-08 | 1.01E-06 | 1.20E-07 | 1.06E-07 | 1.95E-07 | 2.34E-07 | 2.81E-07 | 4.00E-07 |
| 1.21E+01 | 1.32E-08 | 7.93E-07 | 1.01E-07 | 8.92E-08 | 1.64E-07 | 1.97E-07 | 2.36E-07 | 3.36E-07 |
| 1.28E+01 | 1.10E-08 | 6.22E-07 | 8.39E-08 | 7.43E-08 | 1.37E-07 | 1.64E-07 | 1.96E-07 | 2.83E-07 |
| 1.35E+01 | 9.16E-09 | 5.13E-07 | 6.91E-08 | 6.13E-08 | 1.13E-07 | 1.35E-07 | 1.61E-07 | 2.30E-07 |
| 1.43E+01 | 7.52E-09 | 4.18E-07 | 5.61E-08 | 4.99E-08 | 9.21E-08 | 1.08E-07 | 1.30E-07 | 1.75E-07 |
| 1.51E+01 | 6.10E-09 | 3.36E-07 | 4.54E-08 | 4.02E-08 | 7.49E-08 | 8.90E-08 | 1.06E-07 | 1.42E-07 |
| 1.60E+01 | 1.70E-09 | 2.67E-07 | 3.63E-08 | 3.20E-08 | 5.97E-08 | 7.09E-08 | 8.67E-08 | 1.49E-07 |
| 1.70E+01 | 1.34E-09 | 2.10E-07 | 2.85E-08 | 2.51E-08 | 4.70E-08 | 5.57E-08 | 6.75E-08 | 1.16E-07 |
| 1.80E+01 | 8.75E-10 | 1.62E-07 | 2.20E-08 | 1.95E-08 | 3.64E-08 | 4.32E-08 | 5.11E-08 | 8.85E-08 |
| 1.90E+01 | 6.69E-10 | 1.23E-07 | 1.68E-08 | 1.48E-08 | 2.78E-08 | 3.29E-08 | 3.90E-08 | 7.25E-08 |

2.01E+01 5.03E-10 9.33E-08 1.26E-08 1.11E-08 2.09E-08 2.47E-08 2.93E-08 5.41E-08

2.13E+01 3.73E-10 6.87E-08 9.30E-09 8.19E-09 1.55E-08 1.83E-08 2.15E-08 3.56E-08

2.25E+01 2.71E-10 6.89E-08 6.77E-09 5.94E-09 1.13E-08 1.33E-08 1.57E-08 2.32E-08

2.38E+01 1.94E-10 5.13E-08 4.85E-09 4.22E-09 8.04E-09 9.38E-09 1.09E-08 1.84E-08

2.52E+01 1.36E-10 3.50E-08 3.38E-09 2.95E-09 5.59E-09 6.50E-09 7.60E-09 1.13E-08

2.67E+01 9.30E-11 2.20E-08 2.31E-09 2.01E-09 3.83E-09 4.46E-09 5.18E-09 7.53E-09

2.82E+01 6.24E-11 1.38E-08 1.54E-09 1.34E-09 2.57E-09 2.99E-09 3.49E-09 5.30E-09

2.99E+01 4.09E-11 3.53E-08 1.04E-09 8.77E-10 1.69E-09 1.95E-09 2.34E-09 3.57E-09

3.00E+01 3.97E-11 3.45E-08 1.01E-09 8.51E-10 1.64E-09 1.89E-09 2.26E-09 3.46E-09

3.16E+01 2.62E-11 2.23E-08 6.63E-10 5.58E-10 1.08E-09 1.25E-09 1.48E-09 2.24E-09

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| 3.35E+01 | 1.63E-11 | 1.36E-08 | 4.11E-10 | 3.46E-10 | 6.72E-10 | 7.74E-10 | 8.90E-10 | 1.37E-09 |
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| 3.54E+01 | 9.88E-12 | 8.04E-09 | 2.48E-10 | 2.09E-10 | 4.06E-10 | 4.72E-10 | 5.36E-10 | 8.20E-10 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

3.75E+01 4.72E-12 4.61E-09 1.45E-10 1.22E-10 2.38E-10 2.75E-10 3.14E-10 4.66E-10

3.97E+01 2.70E-12 2.57E-09 8.26E-11 6.95E-11 1.36E-10 1.57E-10 1.82E-10 2.65E-10

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| 4.20E+01 | 1.49E-12 | 1.38E-09 | 4.58E-11 | 3.83E-11 | 7.47E-11 | 8.64E-11 | 1.01E-10 | 1.46E-10 |
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4.44E+01 7.95E-13 7.14E-10 2.43E-11 2.03E-11 3.99E-11 4.62E-11 5.46E-11 8.22E-11

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| 4.70E+01 | 4.09E-13 | 3.56E-10 | 1.23E-11 | 1.04E-11 | 2.05E-11 | 2.35E-11 | 2.69E-11 | 3.91E-11 |
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4.97E+01 2.03E-13 1.70E-10 6.08E-12 5.10E-12 1.01E-11 1.16E-11 1.38E-11 1.97E-11

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| 5.26E+01 | 9.63E-14 | 7.81E-11 | 2.89E-12 | 2.42E-12 | 4.86E-12 | 5.52E-12 | 6.53E-12 | 9.91E-12 |
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| 5.57E+01 | 4.38E-14 | 3.42E-11 | 1.31E-12 | 1.10E-12 | 2.20E-12 | 2.50E-12 | 2.96E-12 | 4.35E-12 |
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5.90E+01 1.90E-14 1.43E-11 5.63E-13 4.73E-13 9.56E-13 1.08E-12 1.26E-12 1.85E-12

6.24E+01 7.89E-15 5.66E-12 2.31E-13 1.95E-13 3.93E-13 4.47E-13 5.08E-13 7.45E-13

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| 6.60E+01 | 3.10E-15 | 2.13E-12 | 8.99E-14 | 7.68E-14 | 1.53E-13 | 1.75E-13 | 1.99E-13 | 2.65E-13 |
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| 6.99E+01 | 1.16E-15 | 7.54E-13 | 3.32E-14 | 2.84E-14 | 5.69E-14 | 6.49E-14 | 7.13E-14 | 9.53E-14 |
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7.39E+01 4.07E-16 2.52E-13 1.17E-14 9.92E-15 2.00E-14 2.28E-14 2.58E-14 3.39E-14

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| 7.82E+01 | 1.35E-16 | 7.88E-14 | 3.87E-15 | 3.29E-15 | 6.64E-15 | 7.50E-15 | 8.28E-15 | 1.05E-14 |
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| 8.28E+01 | 4.18E-17 | 2.30E-14 | 1.19E-15 | 1.02E-15 | 2.06E-15 | 2.33E-15 | 2.62E-15 | 3.14E-15 |
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| 8.76E+01 | 1.21E-17 | 6.27E-15 | 3.45E-16 | 2.95E-16 | 5.97E-16 | 6.72E-16 | 7.55E-16 | 9.39E-16 |
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| 9.27E+01 | 3.27E-18 | 1.58E-15 | 9.32E-17 | 7.90E-17 | 1.61E-16 | 1.81E-16 | 2.07E-16 | 2.44E-16 |
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| 9.81E+01 | 8.16E-19 | 3.68E-16 | 2.32E-17 | 1.96E-17 | 4.02E-17 | 4.50E-17 | 5.15E-17 | 6.28E-17 |
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1.00E+02 5.05E-19 2.22E-16 1.43E-17 1.21E-17 2.48E-17 2.78E-17 3.19E-17 3.87E-17

1.04E+02 1.88E-19 7.84E-17 5.31E-18 4.50E-18 9.24E-18 1.03E-17 1.17E-17 1.38E-17

1.10E+02 3.98E-20 1.53E-17 1.11E-18 9.48E-19 1.95E-18 2.16E-18 2.43E-18 2.99E-18

1.16E+02 7.69E-21 2.70E-18 2.13E-19 1.81E-19 3.78E-19 4.15E-19 4.64E-19 5.55E-19

1.23E+02 1.35E-21 4.32E-19 3.73E-20 3.16E-20 6.65E-20 7.34E-20 8.17E-20 9.66E-20

1.30E+02 2.14E-22 6.19E-20 5.90E-21 4.99E-21 1.05E-20 1.16E-20 1.29E-20 1.53E-20

1.38E+02 3.06E-23 7.90E-21 8.40E-22 7.05E-22 1.50E-21 1.64E-21 1.82E-21 2.17E-21

1.46E+02 3.89E-24 8.93E-22 1.07E-22 8.93E-23 1.92E-22 2.09E-22 2.31E-22 2.88E-22

1.54E+02 4.39E-25 8.86E-23 1.20E-23 1.01E-23 2.16E-23 2.36E-23 2.60E-23 3.54E-23

1.63E+02 4.37E-26 7.66E-24 1.19E-24 9.96E-25 2.15E-24 2.34E-24 2.59E-24 3.45E-24

1.73E+02 3.80E-27 5.74E-25 1.03E-25 8.65E-26 1.87E-25 2.03E-25 2.25E-25 3.08E-25

1.83E+02 2.86E-28 4.29E-26 7.84E-27 6.50E-27 1.41E-26 1.53E-26 1.77E-26 2.36E-26

1.94E+02 1.73E-29 3.14E-27 5.13E-28 4.21E-28 9.21E-28 9.97E-28 1.20E-27 1.73E-27

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| 2.05E+02 | 0.00E+00 | 2.41E-28 | 2.78E-29 | 2.20E-29 | 5.06E-29 | 5.49E-29 | 6.92E-29 | 9.52E-29 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

2.17E+02 0.00E+00 1.32E-29 7.05E-31 0.00E+00 1.99E-30 2.02E-30 2.82E-30 4.90E-30

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2.72E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00

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6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
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| Summary of dose at graphical times, reptition 2 | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|----------|
| Time | Dose statistics at graphical times, mrem/yr | | | | | | | |
| Years | Minimum | Maximum | Mean | Median | 90% | 95% | 97.5% | 99% |
| 0.00E+00 | 2.66E-07 | 6.79E-06 | 2.16E-06 | 2.00E-06 | 3.59E-06 | 4.31E-06 | 4.88E-06 | 5.47E-06 |
| 1.00E+00 | 2.08E-07 | 5.22E-06 | 1.67E-06 | 1.54E-06 | 2.77E-06 | 3.33E-06 | 3.76E-06 | 4.20E-06 |
| 1.06E+00 | 2.05E-07 | 5.14E-06 | 1.64E-06 | 1.52E-06 | 2.73E-06 | 3.28E-06 | 3.70E-06 | 4.14E-06 |
| 1.12E+00 | 2.02E-07 | 5.06E-06 | 1.61E-06 | 1.50E-06 | 2.69E-06 | 3.23E-06 | 3.64E-06 | 4.07E-06 |
| 1.19E+00 | 1.99E-07 | 4.97E-06 | 1.59E-06 | 1.47E-06 | 2.64E-06 | 3.17E-06 | 3.58E-06 | 4.00E-06 |
| 1.25E+00 | 1.95E-07 | 4.88E-06 | 1.56E-06 | 1.44E-06 | 2.60E-06 | 3.12E-06 | 3.52E-06 | 3.93E-06 |
| 1.33E+00 | 1.92E-07 | 4.79E-06 | 1.53E-06 | 1.42E-06 | 2.55E-06 | 3.06E-06 | 3.45E-06 | 3.86E-06 |
| 1.40E+00 | 1.88E-07 | 4.69E-06 | 1.50E-06 | 1.39E-06 | 2.50E-06 | 3.00E-06 | 3.38E-06 | 3.78E-06 |
| 1.49E+00 | 1.84E-07 | 4.60E-06 | 1.47E-06 | 1.36E-06 | 2.44E-06 | 2.94E-06 | 3.31E-06 | 3.72E-06 |
| 1.57E+00 | 1.80E-07 | 4.49E-06 | 1.44E-06 | 1.33E-06 | 2.39E-06 | 2.87E-06 | 3.24E-06 | 3.65E-06 |
| 1.66E+00 | 1.76E-07 | 4.38E-06 | 1.41E-06 | 1.30E-06 | 2.33E-06 | 2.80E-06 | 3.16E-06 | 3.58E-06 |
| 1.76E+00 | 1.72E-07 | 4.27E-06 | 1.37E-06 | 1.27E-06 | 2.27E-06 | 2.73E-06 | 3.09E-06 | 3.51E-06 |
| 1.86E+00 | 1.67E-07 | 4.16E-06 | 1.34E-06 | 1.23E-06 | 2.22E-06 | 2.66E-06 | 3.01E-06 | 3.44E-06 |
| 1.97E+00 | 1.63E-07 | 4.04E-06 | 1.30E-06 | 1.20E-06 | 2.16E-06 | 2.59E-06 | 2.92E-06 | 3.36E-06 |
| 2.09E+00 | 1.58E-07 | 3.92E-06 | 1.26E-06 | 1.17E-06 | 2.10E-06 | 2.52E-06 | 2.84E-06 | 3.28E-06 |
| 2.21E+00 | 1.53E-07 | 3.80E-06 | 1.23E-06 | 1.13E-06 | 2.03E-06 | 2.46E-06 | 2.77E-06 | 3.20E-06 |
| 2.34E+00 | 1.49E-07 | 3.67E-06 | 1.19E-06 | 1.10E-06 | 1.97E-06 | 2.38E-06 | 2.70E-06 | 3.11E-06 |
| 2.47E+00 | 1.44E-07 | 3.54E-06 | 1.15E-06 | 1.06E-06 | 1.90E-06 | 2.30E-06 | 2.60E-06 | 3.01E-06 |
| 2.62E+00 | 1.38E-07 | 3.41E-06 | 1.10E-06 | 1.02E-06 | 1.83E-06 | 2.21E-06 | 2.51E-06 | 2.90E-06 |
| 2.77E+00 | 1.33E-07 | 3.28E-06 | 1.06E-06 | 9.82E-07 | 1.76E-06 | 2.13E-06 | 2.41E-06 | 2.79E-06 |
| 2.93E+00 | 1.28E-07 | 3.14E-06 | 1.02E-06 | 9.41E-07 | 1.69E-06 | 2.04E-06 | 2.31E-06 | 2.67E-06 |
| 3.00E+00 | 1.26E-07 | 3.09E-06 | 1.00E-06 | 9.24E-07 | 1.66E-06 | 2.00E-06 | 2.27E-06 | 2.63E-06 |
| 3.10E+00 | 1.23E-07 | 3.01E-06 | 9.74E-07 | 8.99E-07 | 1.62E-06 | 1.95E-06 | 2.21E-06 | 2.56E-06 |
| 3.28E+00 | 1.17E-07 | 2.87E-06 | 9.30E-07 | 8.56E-07 | 1.54E-06 | 1.86E-06 | 2.11E-06 | 2.44E-06 |
| 3.48E+00 | 1.12E-07 | 2.73E-06 | 8.85E-07 | 8.16E-07 | 1.47E-06 | 1.77E-06 | 2.01E-06 | 2.32E-06 |
| 3.68E+00 | 1.06E-07 | 2.58E-06 | 8.40E-07 | 7.76E-07 | 1.39E-06 | 1.68E-06 | 1.90E-06 | 2.20E-06 |
| 3.89E+00 | 1.01E-07 | 2.44E-06 | 7.96E-07 | 7.34E-07 | 1.32E-06 | 1.58E-06 | 1.80E-06 | 2.09E-06 |
| 4.12E+00 | 9.50E-08 | 3.03E-06 | 7.52E-07 | 6.92E-07 | 1.25E-06 | 1.51E-06 | 1.70E-06 | 1.97E-06 |
| 4.36E+00 | 8.94E-08 | 3.77E-06 | 7.09E-07 | 6.50E-07 | 1.17E-06 | 1.41E-06 | 1.60E-06 | 1.90E-06 |
| 4.61E+00 | 8.39E-08 | 4.50E-06 | 6.66E-07 | 6.09E-07 | 1.10E-06 | 1.34E-06 | 1.53E-06 | 1.78E-06 |
| 4.88E+00 | 7.84E-08 | 4.76E-06 | 6.25E-07 | 5.67E-07 | 1.02E-06 | 1.25E-06 | 1.43E-06 | 1.70E-06 |
| 5.17E+00 | 7.30E-08 | 5.52E-06 | 5.85E-07 | 5.26E-07 | 9.53E-07 | 1.16E-06 | 1.34E-06 | 1.58E-06 |
| 5.47E+00 | 6.77E-08 | 7.49E-06 | 5.46E-07 | 4.87E-07 | 8.81E-07 | 1.07E-06 | 1.23E-06 | 1.57E-06 |
| 5.78E+00 | 6.25E-08 | 8.08E-06 | 5.06E-07 | 4.49E-07 | 8.19E-07 | 9.88E-07 | 1.13E-06 | 1.44E-06 |
| 6.12E+00 | 5.74E-08 | 7.38E-06 | 4.65E-07 | 4.11E-07 | 7.51E-07 | 9.05E-07 | 1.05E-06 | 1.32E-06 |
| 6.48E+00 | 5.25E-08 | 6.70E-06 | 4.26E-07 | 3.75E-07 | 6.86E-07 | 8.26E-07 | 9.53E-07 | 1.22E-06 |
| 6.86E+00 | 4.77E-08 | 6.06E-06 | 3.89E-07 | 3.40E-07 | 6.27E-07 | 7.50E-07 | 8.99E-07 | 1.14E-06 |
| 7.26E+00 | 4.32E-08 | 5.44E-06 | 3.53E-07 | 3.07E-07 | 5.69E-07 | 6.80E-07 | 8.11E-07 | 1.03E-06 |
| 7.68E+00 | 3.88E-08 | 4.85E-06 | 3.18E-07 | 2.75E-07 | 5.11E-07 | 6.10E-07 | 7.29E-07 | 9.92E-07 |
| 8.13E+00 | 3.47E-08 | 4.30E-06 | 2.84E-07 | 2.45E-07 | 4.55E-07 | 5.43E-07 | 6.49E-07 | 1.16E-06 |
| 8.60E+00 | 3.08E-08 | 3.79E-06 | 2.52E-07 | 2.17E-07 | 4.03E-07 | 4.81E-07 | 5.74E-07 | 9.94E-07 |
| 9.10E+00 | 2.72E-08 | 3.31E-06 | 2.21E-07 | 1.90E-07 | 3.54E-07 | 4.22E-07 | 5.04E-07 | 8.48E-07 |
| 9.63E+00 | 2.38E-08 | 2.87E-06 | 1.91E-07 | 1.66E-07 | 3.09E-07 | 3.70E-07 | 4.39E-07 | 7.16E-07 |
| 1.00E+01 | 2.16E-08 | 2.59E-06 | 1.74E-07 | 1.50E-07 | 2.81E-07 | 3.35E-07 | 3.99E-07 | 5.65E-07 |
| 1.02E+01 | 2.06E-08 | 2.46E-06 | 1.65E-07 | 1.43E-07 | 2.68E-07 | 3.22E-07 | 3.81E-07 | 5.98E-07 |
| 1.08E+01 | 1.78E-08 | 2.10E-06 | 1.42E-07 | 1.23E-07 | 2.30E-07 | 2.77E-07 | 3.31E-07 | 5.15E-07 |
| 1.14E+01 | 1.52E-08 | 1.77E-06 | 1.22E-07 | 1.04E-07 | 1.97E-07 | 2.42E-07 | 2.91E-07 | 5.09E-07 |
| 1.21E+01 | 1.28E-08 | 1.48E-06 | 1.04E-07 | 8.80E-08 | 1.66E-07 | 2.04E-07 | 2.57E-07 | 4.51E-07 |
| 1.28E+01 | 1.08E-08 | 1.23E-06 | 8.60E-08 | 7.34E-08 | 1.39E-07 | 1.70E-07 | 2.14E-07 | 3.46E-07 |
| 1.35E+01 | 8.91E-09 | 1.00E-06 | 7.06E-08 | 6.04E-08 | 1.15E-07 | 1.40E-07 | 1.74E-07 | 2.81E-07 |
| 1.43E+01 | 7.31E-09 | 8.11E-07 | 5.75E-08 | 4.92E-08 | 9.35E-08 | 1.14E-07 | 1.43E-07 | 2.22E-07 |
| 1.51E+01 | 5.93E-09 | 6.47E-07 | 4.64E-08 | 3.97E-08 | 7.50E-08 | 9.14E-08 | 1.14E-07 | 1.74E-07 |
| 1.60E+01 | 4.74E-09 | 5.10E-07 | 3.70E-08 | 3.16E-08 | 5.98E-08 | 7.24E-08 | 8.71E-08 | 1.34E-07 |
| 1.70E+01 | 3.75E-09 | 3.97E-07 | 2.90E-08 | 2.49E-08 | 4.71E-08 | 5.67E-08 | 6.82E-08 | 1.05E-07 |
| 1.80E+01 | 2.92E-09 | 3.04E-07 | 2.23E-08 | 1.92E-08 | 3.64E-08 | 4.38E-08 | 5.27E-08 | 8.02E-08 |
| 1.90E+01 | 2.25E-09 | 2.29E-07 | 1.69E-08 | 1.46E-08 | 2.78E-08 | 3.30E-08 | 4.02E-08 | 5.79E-08 |

2.01E+01 1.33E-09 1.70E-07 1.26E-08 1.10E-08 2.08E-08 2.50E-08 2.96E-08 3.95E-08

2.13E+01 5.10E-10 1.24E-07 9.34E-09 8.07E-09 1.53E-08 1.84E-08 2.20E-08 3.02E-08

2.25E+01 1.83E-10 8.88E-08 6.74E-09 5.84E-09 1.11E-08 1.33E-08 1.54E-08 2.02E-08

2.38E+01 1.31E-10 6.24E-08 4.79E-09 4.16E-09 7.95E-09 9.40E-09 1.09E-08 1.36E-08

2.52E+01 9.18E-11 4.29E-08 3.36E-09 2.90E-09 5.56E-09 6.62E-09 7.66E-09 1.00E-08

2.67E+01 6.29E-11 2.96E-08 2.33E-09 1.99E-09 3.83E-09 4.55E-09 5.42E-09 7.18E-09

2.82E+01 4.22E-11 2.14E-08 1.57E-09 1.33E-09 2.59E-09 3.04E-09 3.71E-09 5.08E-09

2.99E+01 2.77E-11 1.37E-08 1.03E-09 8.72E-10 1.70E-09 1.98E-09 2.43E-09 3.45E-09

3.00E+01 2.69E-11 1.33E-08 1.00E-09 8.46E-10 1.65E-09 1.92E-09 2.35E-09 3.33E-09

3.16E+01 1.77E-11 8.57E-09 6.56E-10 5.56E-10 1.08E-09 1.26E-09 1.52E-09 2.05E-09

3.35E+01 1.10E-11 5.20E-09 4.08E-10 3.46E-10 6.73E-10 7.81E-10 9.52E-10 1.32E-09

3.54E+01 6.69E-12 3.07E-09 2.46E-10 2.09E-10 4.04E-10 4.71E-10 5.72E-10 7.86E-10

3.75E+01 3.94E-12 1.76E-09 1.44E-10 1.21E-10 2.41E-10 2.79E-10 3.35E-10 4.53E-10

3.97E+01 2.25E-12 9.75E-10 8.20E-11 6.91E-11 1.37E-10 1.57E-10 1.91E-10 2.92E-10

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.20E+01 | 1.24E-12 | 5.22E-10 | 4.51E-11 | 3.80E-11 | 7.62E-11 | 8.71E-11 | 1.06E-10 | 1.58E-10 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

4.44E+01 6.63E-13 2.70E-10 2.40E-11 2.02E-11 4.04E-11 4.63E-11 5.63E-11 7.10E-11

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| 4.70E+01 | 3.41E-13 | 1.34E-10 | 1.23E-11 | 1.04E-11 | 2.07E-11 | 2.36E-11 | 2.88E-11 | 3.64E-11 |
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| 4.97E+01 | 1.69E-13 | 6.39E-11 | 6.05E-12 | 5.13E-12 | 1.02E-11 | 1.17E-11 | 1.41E-11 | 1.80E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.26E+01 8.03E-14 2.92E-11 2.87E-12 2.43E-12 4.88E-12 5.52E-12 6.72E-12 8.61E-12

5.57E+01 3.66E-14 1.28E-11 1.30E-12 1.11E-12 2.21E-12 2.52E-12 3.02E-12 3.86E-12

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| 5.90E+01 | 1.59E-14 | 5.31E-12 | 5.60E-13 | 4.78E-13 | 9.58E-13 | 1.08E-12 | 1.25E-12 | 1.51E-12 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

6.24E+01 6.58E-15 2.10E-12 2.32E-13 1.97E-13 3.97E-13 4.48E-13 5.15E-13 6.45E-13

6.60E+01 2.59E-15 2.07E-12 9.25E-14 7.70E-14 1.56E-13 1.75E-13 2.03E-13 2.47E-13

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| 6.99E+01 | 9.65E-16 | 6.81E-13 | 3.46E-14 | 2.86E-14 | 5.81E-14 | 6.52E-14 | 7.59E-14 | 1.00E-13 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

7.39E+01 3.39E-16 1.63E-13 1.19E-14 1.00E-14 2.05E-14 2.28E-14 2.64E-14 3.40E-14

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 7.82E+01 | 1.12E-16 | 2.93E-14 | 3.93E-15 | 3.32E-15 | 6.77E-15 | 7.62E-15 | 8.85E-15 | 1.14E-14 |
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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8.28E+01 | 3.48E-17 | 8.51E-15 | 1.20E-15 | 1.03E-15 | 2.09E-15 | 2.32E-15 | 2.67E-15 | 3.30E-15 |
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| 8.76E+01 | 1.01E-17 | 2.32E-15 | 3.47E-16 | 2.97E-16 | 6.03E-16 | 6.73E-16 | 7.70E-16 | 9.23E-16 |
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| 9.27E+01 | 2.72E-18 | 5.86E-16 | 9.31E-17 | 7.93E-17 | 1.62E-16 | 1.80E-16 | 2.08E-16 | 2.52E-16 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

9.81E+01 6.81E-19 1.60E-16 2.33E-17 1.97E-17 4.03E-17 4.47E-17 5.23E-17 6.59E-17

1.00E+02 4.21E-19 9.73E-17 1.44E-17 1.22E-17 2.50E-17 2.79E-17 3.23E-17 4.06E-17

1.04E+02 1.57E-19 3.52E-17 5.33E-18 4.56E-18 9.31E-18 1.03E-17 1.18E-17 1.50E-17

1.10E+02 3.32E-20 6.23E-18 1.13E-18 9.63E-19 1.97E-18 2.19E-18 2.54E-18 3.12E-18

1.16E+02 6.42E-21 1.03E-18 2.16E-19 1.85E-19 3.80E-19 4.19E-19 4.86E-19 6.00E-19

1.23E+02 1.13E-21 1.67E-19 3.76E-20 3.23E-20 6.65E-20 7.27E-20 8.42E-20 1.04E-19

1.30E+02 1.79E-22 3.03E-20 5.93E-21 5.08E-21 1.05E-20 1.15E-20 1.32E-20 1.63E-20

1.38E+02 2.55E-23 4.29E-21 8.45E-22 7.16E-22 1.50E-21 1.63E-21 1.90E-21 2.37E-21

1.46E+02 3.25E-24 5.39E-22 1.07E-22 9.05E-23 1.91E-22 2.06E-22 2.38E-22 2.93E-22

1.54E+02 3.67E-25 3.01E-22 1.23E-23 1.02E-23 2.15E-23 2.32E-23 2.68E-23 3.38E-23

1.63E+02 3.64E-26 1.96E-23 1.22E-24 1.02E-24 2.15E-24 2.32E-24 2.81E-24 3.44E-24

1.73E+02 3.17E-27 8.32E-25 1.06E-25 8.95E-26 1.88E-25 2.05E-25 2.44E-25 2.98E-25

1.83E+02 2.38E-28 4.47E-26 7.99E-27 6.73E-27 1.42E-26 1.57E-26 1.85E-26 2.47E-26

1.94E+02 1.48E-29 3.80E-27 5.30E-28 4.42E-28 9.23E-28 1.04E-27 1.35E-27 2.16E-27

2.05E+02 0.00E+00 2.08E-28 2.90E-29 2.30E-29 5.08E-29 5.94E-29 8.21E-29 1.28E-28

2.17E+02 0.00E+00 7.96E-30 7.12E-31 0.00E+00 1.99E-30 2.07E-30 3.13E-30 4.86E-30

[illegible]

[illegible]

[illegible]

```
2.72E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```

4.04E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00

```


[illegible]

[illegible]

```
4.79E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

```
5.36E+02      0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00
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| Summary of dose at graphical times, reptition 3 | | | | | | | | |
|---|---|----------|----------|----------|----------|----------|----------|----------|
| Time | Dose statistics at graphical times, mrem/yr | | | | | | | |
| Years | Minimum | Maximum | Mean | Median | 90% | 95% | 97.5% | 99% |
| 0.00E+00 | 2.58E-07 | 7.87E-06 | 2.15E-06 | 2.00E-06 | 3.65E-06 | 4.30E-06 | 4.85E-06 | 5.51E-06 |
| 1.00E+00 | 2.04E-07 | 6.06E-06 | 1.66E-06 | 1.55E-06 | 2.82E-06 | 3.31E-06 | 3.74E-06 | 4.25E-06 |
| 1.06E+00 | 2.01E-07 | 5.96E-06 | 1.64E-06 | 1.52E-06 | 2.78E-06 | 3.26E-06 | 3.68E-06 | 4.19E-06 |
| 1.12E+00 | 1.98E-07 | 5.87E-06 | 1.61E-06 | 1.50E-06 | 2.73E-06 | 3.21E-06 | 3.63E-06 | 4.12E-06 |
| 1.19E+00 | 1.95E-07 | 5.77E-06 | 1.59E-06 | 1.48E-06 | 2.69E-06 | 3.16E-06 | 3.56E-06 | 4.05E-06 |
| 1.25E+00 | 1.92E-07 | 5.67E-06 | 1.56E-06 | 1.45E-06 | 2.64E-06 | 3.10E-06 | 3.50E-06 | 3.98E-06 |
| 1.33E+00 | 1.89E-07 | 5.56E-06 | 1.53E-06 | 1.42E-06 | 2.59E-06 | 3.04E-06 | 3.44E-06 | 3.90E-06 |
| 1.40E+00 | 1.85E-07 | 5.45E-06 | 1.50E-06 | 1.39E-06 | 2.54E-06 | 2.98E-06 | 3.37E-06 | 3.82E-06 |
| 1.49E+00 | 1.82E-07 | 5.33E-06 | 1.47E-06 | 1.36E-06 | 2.49E-06 | 2.92E-06 | 3.30E-06 | 3.74E-06 |
| 1.57E+00 | 1.78E-07 | 5.21E-06 | 1.43E-06 | 1.33E-06 | 2.43E-06 | 2.85E-06 | 3.22E-06 | 3.66E-06 |
| 1.66E+00 | 1.74E-07 | 5.09E-06 | 1.40E-06 | 1.30E-06 | 2.38E-06 | 2.79E-06 | 3.15E-06 | 3.57E-06 |
| 1.76E+00 | 1.70E-07 | 4.96E-06 | 1.37E-06 | 1.27E-06 | 2.32E-06 | 2.72E-06 | 3.07E-06 | 3.48E-06 |
| 1.86E+00 | 1.66E-07 | 4.83E-06 | 1.33E-06 | 1.24E-06 | 2.26E-06 | 2.65E-06 | 2.99E-06 | 3.38E-06 |
| 1.97E+00 | 1.62E-07 | 4.70E-06 | 1.29E-06 | 1.20E-06 | 2.20E-06 | 2.58E-06 | 2.91E-06 | 3.29E-06 |
| 2.09E+00 | 1.58E-07 | 4.56E-06 | 1.26E-06 | 1.17E-06 | 2.13E-06 | 2.50E-06 | 2.82E-06 | 3.19E-06 |
| 2.21E+00 | 1.53E-07 | 4.41E-06 | 1.22E-06 | 1.13E-06 | 2.07E-06 | 2.42E-06 | 2.73E-06 | 3.09E-06 |
| 2.34E+00 | 1.48E-07 | 4.27E-06 | 1.18E-06 | 1.09E-06 | 2.00E-06 | 2.34E-06 | 2.64E-06 | 2.99E-06 |
| 2.47E+00 | 1.44E-07 | 4.12E-06 | 1.14E-06 | 1.06E-06 | 1.93E-06 | 2.26E-06 | 2.55E-06 | 2.88E-06 |
| 2.62E+00 | 1.39E-07 | 3.97E-06 | 1.09E-06 | 1.02E-06 | 1.86E-06 | 2.18E-06 | 2.46E-06 | 2.77E-06 |
| 2.77E+00 | 1.34E-07 | 3.81E-06 | 1.05E-06 | 9.77E-07 | 1.79E-06 | 2.10E-06 | 2.36E-06 | 2.66E-06 |
| 2.93E+00 | 1.29E-07 | 3.65E-06 | 1.01E-06 | 9.37E-07 | 1.72E-06 | 2.01E-06 | 2.27E-06 | 2.55E-06 |
| 3.00E+00 | 1.27E-07 | 3.59E-06 | 9.93E-07 | 9.21E-07 | 1.69E-06 | 1.98E-06 | 2.23E-06 | 2.51E-06 |
| 3.10E+00 | 1.24E-07 | 3.49E-06 | 9.67E-07 | 8.96E-07 | 1.64E-06 | 1.93E-06 | 2.17E-06 | 2.47E-06 |
| 3.28E+00 | 1.19E-07 | 3.33E-06 | 9.24E-07 | 8.56E-07 | 1.57E-06 | 1.84E-06 | 2.07E-06 | 2.36E-06 |
| 3.48E+00 | 1.13E-07 | 3.17E-06 | 8.80E-07 | 8.14E-07 | 1.49E-06 | 1.75E-06 | 1.97E-06 | 2.24E-06 |
| 3.68E+00 | 1.08E-07 | 3.01E-06 | 8.35E-07 | 7.72E-07 | 1.42E-06 | 1.66E-06 | 1.87E-06 | 2.14E-06 |
| 3.89E+00 | 1.03E-07 | 2.84E-06 | 7.91E-07 | 7.31E-07 | 1.34E-06 | 1.57E-06 | 1.77E-06 | 2.07E-06 |
| 4.12E+00 | 9.73E-08 | 2.69E-06 | 7.47E-07 | 6.90E-07 | 1.27E-06 | 1.48E-06 | 1.67E-06 | 1.95E-06 |
| 4.36E+00 | 9.19E-08 | 2.56E-06 | 7.04E-07 | 6.49E-07 | 1.20E-06 | 1.41E-06 | 1.58E-06 | 1.83E-06 |
| 4.61E+00 | 8.65E-08 | 2.46E-06 | 6.60E-07 | 6.09E-07 | 1.12E-06 | 1.32E-06 | 1.48E-06 | 2.00E-06 |
| 4.88E+00 | 8.11E-08 | 3.19E-06 | 6.18E-07 | 5.67E-07 | 1.05E-06 | 1.23E-06 | 1.38E-06 | 1.87E-06 |
| 5.17E+00 | 7.58E-08 | 3.42E-06 | 5.74E-07 | 5.27E-07 | 9.72E-07 | 1.14E-06 | 1.28E-06 | 1.73E-06 |
| 5.47E+00 | 7.06E-08 | 3.15E-06 | 5.33E-07 | 4.88E-07 | 9.01E-07 | 1.06E-06 | 1.18E-06 | 1.61E-06 |
| 5.78E+00 | 6.54E-08 | 4.77E-06 | 4.94E-07 | 4.49E-07 | 8.30E-07 | 9.75E-07 | 1.09E-06 | 1.49E-06 |
| 6.12E+00 | 6.03E-08 | 6.99E-06 | 4.57E-07 | 4.12E-07 | 7.65E-07 | 8.94E-07 | 1.02E-06 | 1.37E-06 |
| 6.48E+00 | 5.54E-08 | 7.38E-06 | 4.19E-07 | 3.76E-07 | 6.99E-07 | 8.17E-07 | 9.42E-07 | 1.30E-06 |
| 6.86E+00 | 5.06E-08 | 6.50E-06 | 3.82E-07 | 3.42E-07 | 6.41E-07 | 7.42E-07 | 8.66E-07 | 1.18E-06 |
| 7.26E+00 | 4.59E-08 | 5.66E-06 | 3.46E-07 | 3.08E-07 | 5.78E-07 | 6.69E-07 | 7.81E-07 | 1.10E-06 |
| 7.68E+00 | 4.13E-08 | 4.90E-06 | 3.10E-07 | 2.76E-07 | 5.19E-07 | 6.00E-07 | 6.99E-07 | 9.89E-07 |
| 8.13E+00 | 3.70E-08 | 4.19E-06 | 2.76E-07 | 2.47E-07 | 4.62E-07 | 5.34E-07 | 6.16E-07 | 8.80E-07 |
| 8.60E+00 | 3.29E-08 | 3.55E-06 | 2.43E-07 | 2.18E-07 | 4.10E-07 | 4.72E-07 | 5.45E-07 | 7.53E-07 |
| 9.10E+00 | 2.27E-08 | 2.98E-06 | 2.14E-07 | 1.92E-07 | 3.59E-07 | 4.14E-07 | 4.83E-07 | 6.61E-07 |
| 9.63E+00 | 1.98E-08 | 2.80E-06 | 1.88E-07 | 1.67E-07 | 3.11E-07 | 3.61E-07 | 4.18E-07 | 5.76E-07 |
| 1.00E+01 | 1.80E-08 | 2.72E-06 | 1.71E-07 | 1.52E-07 | 2.81E-07 | 3.28E-07 | 3.80E-07 | 5.24E-07 |
| 1.02E+01 | 1.71E-08 | 2.55E-06 | 1.62E-07 | 1.45E-07 | 2.68E-07 | 3.12E-07 | 3.61E-07 | 4.98E-07 |
| 1.08E+01 | 1.47E-08 | 2.02E-06 | 1.39E-07 | 1.24E-07 | 2.29E-07 | 2.67E-07 | 3.10E-07 | 4.24E-07 |
| 1.14E+01 | 1.25E-08 | 1.56E-06 | 1.18E-07 | 1.05E-07 | 1.97E-07 | 2.28E-07 | 2.71E-07 | 3.67E-07 |
| 1.21E+01 | 1.06E-08 | 1.23E-06 | 1.00E-07 | 8.86E-08 | 1.66E-07 | 1.91E-07 | 2.22E-07 | 3.03E-07 |
| 1.28E+01 | 8.81E-09 | 1.07E-06 | 8.33E-08 | 7.37E-08 | 1.38E-07 | 1.59E-07 | 1.85E-07 | 2.52E-07 |
| 1.35E+01 | 5.60E-09 | 7.59E-07 | 6.88E-08 | 6.09E-08 | 1.15E-07 | 1.34E-07 | 1.52E-07 | 2.12E-07 |
| 1.43E+01 | 4.58E-09 | 1.28E-06 | 5.73E-08 | 4.99E-08 | 9.36E-08 | 1.09E-07 | 1.25E-07 | 1.77E-07 |
| 1.51E+01 | 3.69E-09 | 1.16E-06 | 4.64E-08 | 4.02E-08 | 7.55E-08 | 8.80E-08 | 1.04E-07 | 1.50E-07 |
| 1.60E+01 | 2.94E-09 | 8.81E-07 | 3.68E-08 | 3.20E-08 | 6.06E-08 | 7.01E-08 | 8.22E-08 | 1.46E-07 |
| 1.70E+01 | 1.67E-09 | 6.59E-07 | 2.88E-08 | 2.52E-08 | 4.72E-08 | 5.51E-08 | 6.44E-08 | 9.62E-08 |
| 1.80E+01 | 1.24E-09 | 4.84E-07 | 2.22E-08 | 1.94E-08 | 3.66E-08 | 4.27E-08 | 4.98E-08 | 8.56E-08 |
| 1.90E+01 | 9.51E-10 | 3.49E-07 | 1.69E-08 | 1.48E-08 | 2.80E-08 | 3.25E-08 | 3.79E-08 | 6.47E-08 |

2.01E+01 7.16E-10 2.46E-07 1.26E-08 1.11E-08 2.11E-08 2.44E-08 2.80E-08 4.82E-08

2.13E+01 5.30E-10 1.70E-07 9.29E-09 8.18E-09 1.55E-08 1.80E-08 2.09E-08 3.42E-08

2.25E+01 3.85E-10 1.15E-07 6.77E-09 5.92E-09 1.14E-08 1.32E-08 1.56E-08 2.19E-08

2.38E+01 2.75E-10 7.55E-08 4.82E-09 4.20E-09 8.11E-09 9.40E-09 1.11E-08 1.55E-08

2.52E+01 1.93E-10 4.82E-08 3.36E-09 2.94E-09 5.67E-09 6.56E-09 7.87E-09 1.08E-08

2.67E+01 1.32E-10 2.99E-08 2.29E-09 2.00E-09 3.88E-09 4.45E-09 5.33E-09 7.01E-09

2.82E+01 8.87E-11 1.80E-08 1.53E-09 1.34E-09 2.60E-09 2.97E-09 3.57E-09 4.69E-09

2.99E+01 5.81E-11 1.04E-08 1.00E-09 8.77E-10 1.70E-09 1.94E-09 2.29E-09 3.07E-09

3.00E+01 5.64E-11 9.98E-09 9.74E-10 8.51E-10 1.65E-09 1.89E-09 2.20E-09 2.98E-09

3.16E+01 3.72E-11 5.77E-09 6.38E-10 5.59E-10 1.08E-09 1.23E-09 1.37E-09 1.94E-09

3.35E+01 2.32E-11 3.12E-09 3.94E-10 3.50E-10 6.70E-10 7.56E-10 8.46E-10 1.13E-09

3.54E+01 1.40E-11 1.88E-09 2.36E-10 2.11E-10 3.99E-10 4.54E-10 5.05E-10 6.77E-10

3.75E+01 8.27E-12 1.10E-09 1.38E-10 1.24E-10 2.34E-10 2.66E-10 2.96E-10 3.94E-10

3.97E+01 4.72E-12 6.25E-10 7.82E-11 7.04E-11 1.34E-10 1.52E-10 1.68E-10 2.22E-10

4.20E+01 2.61E-12 3.43E-10 4.29E-11 3.87E-11 7.37E-11 8.37E-11 9.23E-11 1.08E-10

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.44E+01 | 1.39E-12 | 1.82E-10 | 2.28E-11 | 2.05E-11 | 3.93E-11 | 4.45E-11 | 4.85E-11 | 5.71E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.70E+01 | 7.17E-13 | 9.31E-11 | 1.17E-11 | 1.05E-11 | 2.02E-11 | 2.27E-11 | 2.49E-11 | 2.92E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 4.97E+01 | 3.55E-13 | 4.58E-11 | 5.81E-12 | 5.16E-12 | 1.00E-11 | 1.12E-11 | 1.24E-11 | 1.79E-11 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

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|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 5.26E+01 | 1.69E-13 | 2.16E-11 | 2.75E-12 | 2.44E-12 | 4.77E-12 | 5.32E-12 | 5.97E-12 | 8.45E-12 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

5.57E+01 7.68E-14 9.74E-12 1.25E-12 1.11E-12 2.17E-12 2.43E-12 2.70E-12 3.80E-12

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 5.90E+01 | 3.34E-14 | 4.20E-12 | 5.42E-13 | 4.82E-13 | 9.43E-13 | 1.05E-12 | 1.16E-12 | 1.63E-12 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6.24E+01 | 1.38E-14 | 1.72E-12 | 2.23E-13 | 1.98E-13 | 3.89E-13 | 4.34E-13 | 4.81E-13 | 6.21E-13 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 6.60E+01 | 5.44E-15 | 6.71E-13 | 8.77E-14 | 7.76E-14 | 1.52E-13 | 1.70E-13 | 1.87E-13 | 2.24E-13 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

6.99E+01 2.03E-15 2.48E-13 3.25E-14 2.88E-14 5.65E-14 6.28E-14 6.92E-14 8.01E-14

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 7.39E+01 | 7.13E-16 | 8.61E-14 | 1.14E-14 | 1.00E-14 | 1.99E-14 | 2.20E-14 | 2.45E-14 | 2.79E-14 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

7.82E+01 2.36E-16 2.82E-14 3.76E-15 3.30E-15 6.59E-15 7.22E-15 7.80E-15 9.22E-15

8.28E+01 7.32E-17 8.64E-15 1.16E-15 1.03E-15 2.05E-15 2.23E-15 2.41E-15 2.85E-15

8.76E+01 2.12E-17 2.47E-15 3.36E-16 2.96E-16 5.92E-16 6.42E-16 6.98E-16 8.26E-16

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 9.27E+01 | 5.72E-18 | 6.58E-16 | 9.10E-17 | 8.01E-17 | 1.61E-16 | 1.77E-16 | 1.96E-16 | 2.33E-16 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

9.81E+01 1.43E-18 1.62E-16 2.28E-17 1.99E-17 4.03E-17 4.43E-17 5.04E-17 6.17E-17

1.00E+02 8.85E-19 9.98E-17 1.41E-17 1.23E-17 2.49E-17 2.74E-17 3.19E-17 3.95E-17

1.04E+02 3.30E-19 3.68E-17 5.25E-18 4.55E-18 9.27E-18 1.02E-17 1.18E-17 1.46E-17

1.10E+02 6.97E-20 7.66E-18 1.11E-18 9.58E-19 1.96E-18 2.15E-18 2.50E-18 3.06E-18

1.16E+02 1.35E-20 1.46E-18 2.13E-19 1.85E-19 3.78E-19 4.13E-19 4.80E-19 5.72E-19

1.23E+02 2.37E-21 2.51E-19 3.73E-20 3.23E-20 6.60E-20 7.22E-20 8.33E-20 9.70E-20

1.30E+02 3.76E-22 3.91E-20 5.91E-21 5.12E-21 1.05E-20 1.14E-20 1.31E-20 1.52E-20

1.38E+02 5.36E-23 5.47E-21 8.40E-22 7.26E-22 1.49E-21 1.63E-21 1.87E-21 2.13E-21

1.46E+02 6.82E-24 6.82E-22 1.07E-22 9.23E-23 1.90E-22 2.07E-22 2.38E-22 2.65E-22

1.54E+02 7.70E-25 2.02E-22 1.23E-23 1.04E-23 2.15E-23 2.37E-23 2.68E-23 3.01E-23

1.63E+02 7.66E-26 1.43E-23 1.22E-24 1.03E-24 2.15E-24 2.39E-24 2.73E-24 3.18E-24

1.73E+02 6.65E-27 6.20E-25 1.06E-25 8.96E-26 1.86E-25 2.10E-25 2.39E-25 2.94E-25

1.83E+02 5.02E-28 4.55E-26 7.96E-27 6.72E-27 1.40E-26 1.58E-26 1.75E-26 2.18E-26

1.94E+02 3.24E-29 2.87E-27 5.22E-28 4.37E-28 9.18E-28 1.04E-27 1.19E-27 1.79E-27

2.05E+02 1.41E-30 3.00E-28 2.83E-29 2.29E-29 5.08E-29 5.69E-29 6.78E-29 1.01E-28

2.17E+02 0.00E+00 1.13E-29 6.85E-31 0.00E+00 1.99E-30 2.01E-30 2.21E-30 4.66E-30

[illegible]

[illegible]

[illegible]

```
2.72E+02      0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00   0.00E+00
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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
3.82E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

```
6.01E+02      0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00  0.00E+00
```


[illegible]

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Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BP INSITU UA\FCS BURIED PIPE INSITU UA FE-55.RAD

Peak of the mean dose (averaged over observations) at graphical times

| Repetition | Time of peak mean dose | Peak mean dose |
|------------|------------------------|----------------|
| | Years | mrem/yr |
| 1 | 0.000E+00 | 2.155E-06 |
| 2 | 0.000E+00 | 2.157E-06 |
| 3 | 0.000E+00 | 2.154E-06 |

Title : RESRAD Default Parameters
Input File : FCS BURIED PIPE INSITU UA FE-55.RAD

Coefficients for peak All Pathways Dose

| | | | | |
|---------------|-----|-----|------|------|
| Coefficient = | PCC | SRC | PRCC | SRRC |
| Repetition = | 1 | 1 | 1 | 1 |

| Description of Probabilistic Variable | Sig | Coeff | Sig | Coeff | Sig | Coeff | Sig | Coeff |
|--|-----|-------|-----|-------|-----|-------|-----|-------|
| Contaminated zone erosion rate | 9 | 0.03 | 9 | 0.02 | 7 | 0.04 | 7 | 0.03 |
| Contaminated zone b parameter | 14 | 0.01 | 14 | 0.01 | 11 | 0.03 | 11 | 0.02 |
| Evapotranspiration coefficient | 12 | -0.02 | 12 | -0.02 | 8 | -0.03 | 8 | -0.03 |
| Wind Speed | 7 | -0.03 | 7 | -0.03 | 5 | -0.05 | 5 | -0.04 |
| Runoff coefficient | 16 | 0.01 | 16 | 0.00 | 12 | 0.03 | 12 | 0.02 |
| b Parameter of Unsaturated zone 1 | 11 | -0.02 | 11 | -0.02 | 9 | -0.03 | 9 | -0.02 |
| Mass loading for inhalation | 18 | 0.00 | 18 | 0.00 | 18 | 0.01 | 18 | 0.00 |
| Indoor dust filtration factor | 17 | 0.00 | 17 | 0.00 | 17 | -0.01 | 17 | -0.01 |
| Depth of soil mixing layer | 5 | -0.04 | 5 | -0.03 | 6 | -0.04 | 6 | -0.03 |
| Depth of roots | 3 | 0.10 | 3 | 0.09 | 2 | 0.09 | 2 | 0.08 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 4 | -0.07 | 4 | -0.06 | 3 | -0.08 | 3 | -0.07 |
| Weathering removal constant of all vegetation | 6 | -0.03 | 6 | -0.03 | 4 | -0.05 | 4 | -0.04 |
| Wet foliar interception fraction of leafy vegetables | 13 | -0.01 | 13 | -0.01 | 14 | -0.02 | 14 | -0.02 |
| Humidity in air | 8 | 0.03 | 8 | 0.02 | 13 | -0.02 | 13 | -0.02 |
| Cover erosion rate | 2 | 0.15 | 2 | 0.13 | 10 | 0.03 | 10 | 0.02 |
| Kd of Fe-55 in Contaminated Zone | 10 | 0.03 | 10 | 0.02 | 16 | 0.01 | 16 | 0.01 |
| Kd of Fe-55 in Saturated Zone | 15 | -0.01 | 15 | -0.01 | 15 | -0.01 | 15 | -0.01 |
| Well pump intake depth | 1 | -0.50 | 1 | -0.49 | 1 | -0.51 | 1 | -0.50 |
| R-SQUARE | | 0.28 | | 0.28 | | 0.27 | | 0.27 |

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Title : RESRAD Default Parameters

Input File : FCS BURIED PIPE INSITU UA FE-55.RAD

Coefficients for peak All Pathways Dose

| | | | | |
|---------------|-----|-----|------|------|
| Coefficient = | PCC | SRC | PRCC | SRRC |
| Repetition = | 2 | 2 | 2 | 2 |

| | | | | |
|---------------------------------------|-----------|-----------|-----------|-----------|
| Description of Probabilistic Variable | Sig Coeff | Sig Coeff | Sig Coeff | Sig Coeff |
|---------------------------------------|-----------|-----------|-----------|-----------|

| | | | | | | | | |
|--|----|-------|----|-------|----|-------|----|-------|
| Contaminated zone erosion rate | 11 | -0.02 | 11 | -0.02 | 8 | 0.02 | 8 | 0.02 |
| Contaminated zone b parameter | 4 | -0.04 | 4 | -0.04 | 4 | -0.05 | 4 | -0.04 |
| Evapotranspiration coefficient | 17 | 0.00 | 17 | 0.00 | 7 | -0.03 | 7 | -0.02 |
| Wind Speed | 9 | 0.03 | 9 | 0.02 | 3 | 0.05 | 3 | 0.04 |
| Runoff coefficient | 12 | 0.02 | 12 | 0.01 | 18 | 0.00 | 18 | 0.00 |
| b Parameter of Unsaturated zone 1 | 7 | -0.03 | 7 | -0.03 | 5 | -0.03 | 5 | -0.03 |
| Mass loading for inhalation | 6 | -0.04 | 6 | -0.03 | 9 | -0.02 | 9 | -0.02 |
| Indoor dust filtration factor | 13 | -0.02 | 13 | -0.01 | 16 | -0.01 | 16 | -0.01 |
| Depth of soil mixing layer | 10 | -0.02 | 10 | -0.02 | 10 | -0.02 | 10 | -0.01 |
| Depth of roots | 3 | 0.12 | 3 | 0.10 | 2 | 0.10 | 2 | 0.08 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 8 | 0.03 | 8 | 0.03 | 6 | 0.03 | 6 | 0.02 |
| Weathering removal constant of all vegetation | 5 | -0.04 | 5 | -0.04 | 11 | -0.02 | 11 | -0.01 |
| Wet foliar interception fraction of leafy vegetables | 16 | 0.00 | 16 | 0.00 | 14 | 0.01 | 14 | 0.01 |
| Humidity in air | 14 | 0.01 | 14 | 0.01 | 17 | 0.01 | 17 | 0.01 |
| Cover erosion rate | 2 | 0.22 | 2 | 0.18 | 13 | 0.01 | 13 | 0.01 |
| Kd of Fe-55 in Contaminated Zone | 15 | 0.01 | 15 | 0.01 | 15 | 0.01 | 15 | 0.01 |
| Kd of Fe-55 in Saturated Zone | 18 | 0.00 | 18 | 0.00 | 12 | -0.01 | 12 | -0.01 |
| Well pump intake depth | 1 | -0.53 | 1 | -0.52 | 1 | -0.55 | 1 | -0.55 |

| | | | | |
|----------|------|------|------|------|
| R-SQUARE | 0.32 | 0.32 | 0.32 | 0.32 |
|----------|------|------|------|------|

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.

Title : RESRAD Default Parameters

Input File : FCS BURIED PIPE INSITU UA FE-55.RAD

Coefficients for peak All Pathways Dose

| | | | | |
|---------------|-----|-----|------|------|
| Coefficient = | PCC | SRC | PRCC | SRRC |
| Repetition = | 3 | 3 | 3 | 3 |

| Description of Probabilistic Variable | Sig Coeff | Sig Coeff | Sig Coeff | Sig Coeff |
|---------------------------------------|-----------|-----------|-----------|-----------|
|---------------------------------------|-----------|-----------|-----------|-----------|

| | | | | | | | | |
|--|----|-------|----|-------|----|-------|----|-------|
| Contaminated zone erosion rate | 9 | -0.02 | 9 | -0.02 | 15 | 0.01 | 15 | 0.01 |
| Contaminated zone b parameter | 11 | 0.02 | 11 | 0.02 | 17 | 0.00 | 17 | 0.00 |
| Evapotranspiration coefficient | 18 | 0.00 | 18 | 0.00 | 14 | -0.01 | 14 | -0.01 |
| Wind Speed | 13 | 0.02 | 13 | 0.02 | 8 | 0.03 | 8 | 0.02 |
| Runoff coefficient | 15 | -0.01 | 15 | -0.01 | 12 | -0.02 | 12 | -0.01 |
| b Parameter of Unsaturated zone 1 | 6 | -0.03 | 6 | -0.03 | 7 | -0.04 | 7 | -0.03 |
| Mass loading for inhalation | 16 | -0.01 | 16 | -0.01 | 11 | 0.02 | 11 | 0.01 |
| Indoor dust filtration factor | 4 | -0.07 | 4 | -0.05 | 3 | -0.06 | 3 | -0.05 |
| Depth of soil mixing layer | 8 | -0.03 | 8 | -0.02 | 10 | -0.02 | 10 | -0.02 |
| Depth of roots | 3 | 0.12 | 3 | 0.10 | 2 | 0.12 | 2 | 0.10 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 7 | -0.03 | 7 | -0.03 | 5 | -0.05 | 5 | -0.04 |
| Weathering removal constant of all vegetation | 10 | 0.02 | 10 | 0.02 | 18 | 0.00 | 18 | 0.00 |
| Wet foliar interception fraction of leafy vegetables | 14 | -0.02 | 14 | -0.02 | 9 | -0.03 | 9 | -0.02 |
| Humidity in air | 5 | 0.04 | 5 | 0.03 | 4 | 0.05 | 4 | 0.04 |
| Cover erosion rate | 2 | 0.13 | 2 | 0.11 | 6 | 0.04 | 6 | 0.04 |
| Kd of Fe-55 in Contaminated Zone | 17 | 0.01 | 17 | 0.01 | 13 | -0.01 | 13 | -0.01 |
| Kd of Fe-55 in Saturated Zone | 12 | 0.02 | 12 | 0.02 | 16 | -0.01 | 16 | 0.00 |
| Well pump intake depth | 1 | -0.54 | 1 | -0.54 | 1 | -0.56 | 1 | -0.55 |

| | | | | |
|----------|------|------|------|------|
| R-SQUARE | 0.32 | 0.32 | 0.33 | 0.33 |
|----------|------|------|------|------|

-Rank is set to zero if the dose is zero or the correlation matrix is singular.

-R-SQUARE varies between 0 and 1 and is called the coefficient of determination; it provides a measure of the variation in the dependent variable (Dose) explained by regression on the independent variables.