

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

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Probabilistic Input

Number of Sample Runs: 900

| 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 | 6.91 | 1.95 | | | | | | | | | | | | | | | |
| 17 | DCACTS(1) | LOGNORMAL-N | 6.91 | 1.95 | | | | | | | | | | | | | | | |
| 18 | DWIBWT | CONTINUOUS LINEAR | 6 | 5 | 0 | 24 | .29 | 43 | .66 | 53 | .68 | 76 | .95 | 89 | 1 | | | | |

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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/> | | | | | | | | | | | |
| Am-241 | | | | | | | | | | | |
| Min | 0.00E+00 | 3.27E-05 | 1.12E-06 | 1.29E-06 | 1.63E-06 | 2.85E-06 | 2.67E-06 | 2.99E-12 | 1.31E-12 | 7.52E-14 | |
| Max | 1.00E+03 | 8.79E-01 | 6.62E-01 | 3.69E-01 | 5.01E-01 | 7.18E-01 | 3.24E-01 | 3.41E-01 | 6.08E-02 | 1.00E-02 | |
| Avg | 8.73E+01 | 2.68E-02 | 1.89E-02 | 1.73E-02 | 1.58E-02 | 1.42E-02 | 1.23E-02 | 1.10E-02 | 6.48E-03 | 9.46E-04 | |
| Std | 1.51E+02 | 5.39E-02 | 4.21E-02 | 3.06E-02 | 2.61E-02 | 2.87E-02 | 1.97E-02 | 2.10E-02 | 7.67E-03 | 1.41E-03 | |
| ΣALL | | | | | | | | | | | |
| Min | 0.00E+00 | 3.27E-05 | 1.12E-06 | 1.29E-06 | 1.63E-06 | 2.85E-06 | 2.67E-06 | 2.99E-12 | 1.31E-12 | 7.52E-14 | |
| Max | 1.00E+03 | 8.79E-01 | 6.62E-01 | 3.69E-01 | 5.01E-01 | 7.18E-01 | 3.24E-01 | 3.41E-01 | 6.08E-02 | 1.00E-02 | |
| Avg | 8.73E+01 | 2.68E-02 | 1.89E-02 | 1.73E-02 | 1.58E-02 | 1.42E-02 | 1.23E-02 | 1.10E-02 | 6.48E-03 | 9.46E-04 | |
| Std | 1.51E+02 | 5.39E-02 | 4.21E-02 | 3.06E-02 | 2.61E-02 | 2.87E-02 | 1.97E-02 | 2.10E-02 | 7.67E-03 | 1.41E-03 | |
| <hr/> | | | | | | | | | | | |

ΣALL 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 |
| Am-241 | | | | | | | | | |
| Min | | 9.06E-13 | 1.04E-12 | 1.32E-12 | 2.31E-12 | 2.29E-12 | 2.25E-17 | 9.70E-18 | 3.01E-19 |
| Max | | 8.43E-07 | 3.95E-07 | 3.93E-07 | 6.65E-07 | 2.96E-07 | 3.13E-07 | 1.99E-07 | 6.04E-08 |
| Avg | | 1.96E-08 | 1.75E-08 | 1.57E-08 | 1.51E-08 | 1.37E-08 | 1.20E-08 | 9.71E-09 | 2.31E-09 |
| Std | | 4.71E-08 | 3.06E-08 | 2.32E-08 | 3.05E-08 | 2.52E-08 | 2.58E-08 | 2.29E-08 | 7.77E-09 |
| ALL | | | | | | | | | |
| Min | | 9.06E-13 | 1.04E-12 | 1.32E-12 | 2.31E-12 | 2.29E-12 | 2.25E-17 | 9.70E-18 | 3.01E-19 |
| Max | | 8.43E-07 | 3.95E-07 | 3.93E-07 | 6.65E-07 | 2.96E-07 | 3.13E-07 | 1.99E-07 | 6.04E-08 |
| Avg | | 1.96E-08 | 1.75E-08 | 1.57E-08 | 1.51E-08 | 1.37E-08 | 1.20E-08 | 9.71E-09 | 2.31E-09 |
| Std | | 4.71E-08 | 3.06E-08 | 2.32E-08 | 3.05E-08 | 2.52E-08 | 2.58E-08 | 2.29E-08 | 7.77E-09 |

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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| Min | | 3.72E-17 | 3.91E-17 | 1.17E-17 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 8.32E-16 | 3.92E-14 | 5.96E-11 | 1.45E-02 | 1.43E-02 | 1.29E-02 | 9.29E-03 | 3.02E-03 |
| Avg | | 9.19E-17 | 4.01E-16 | 1.10E-13 | 5.77E-05 | 8.02E-05 | 7.62E-05 | 1.87E-04 | 7.76E-05 |
| Std | | 4.70E-17 | 1.87E-15 | 2.13E-12 | 7.46E-04 | 9.17E-04 | 9.07E-04 | 1.08E-03 | 3.79E-04 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| Min | | 3.72E-17 | 3.91E-17 | 1.17E-17 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |
| Max | | 8.32E-16 | 3.92E-14 | 5.96E-11 | 1.45E-02 | 1.43E-02 | 1.29E-02 | 9.29E-03 | 3.02E-03 |
| Avg | | 9.19E-17 | 4.01E-16 | 1.10E-13 | 5.77E-05 | 8.02E-05 | 7.62E-05 | 1.87E-04 | 7.76E-05 |
| Std | | 4.70E-17 | 1.87E-15 | 2.13E-12 | 7.46E-04 | 9.17E-04 | 9.07E-04 | 1.08E-03 | 3.79E-04 |
| <hr/> | | | | | | | | | |

ΣALL 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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 | 9.62E-04 | 4.71E-04 | 8.56E-04 | 8.27E-04 | 3.34E-04 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.82E-06 | 2.48E-06 | 2.73E-06 | 1.41E-05 | 3.48E-06 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-05 | 2.89E-05 | 3.55E-05 | 6.19E-05 | 1.86E-05 |
| ΣALL | | | | | | | | | |
| 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 | 9.62E-04 | 4.71E-04 | 8.56E-04 | 8.27E-04 | 3.34E-04 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 3.82E-06 | 2.48E-06 | 2.73E-06 | 1.41E-05 | 3.48E-06 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.88E-05 | 2.89E-05 | 3.55E-05 | 6.19E-05 | 1.86E-05 |
| <hr/> | | | | | | | | | |

ΣALL 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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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

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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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 | | 1.99E-02 | 1.98E-02 | 1.97E-02 | 6.94E-02 | 2.65E-02 | 3.39E-02 | 3.14E-02 | 8.64E-03 |
| Avg | | 7.71E-03 | 7.56E-03 | 7.31E-03 | 6.81E-03 | 5.72E-03 | 4.42E-03 | 2.56E-03 | 2.68E-04 |
| Std | | 5.26E-03 | 5.19E-03 | 5.11E-03 | 5.39E-03 | 4.77E-03 | 4.71E-03 | 4.04E-03 | 7.76E-04 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| 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 | | 1.99E-02 | 1.98E-02 | 1.97E-02 | 6.94E-02 | 2.65E-02 | 3.39E-02 | 3.14E-02 | 8.64E-03 |
| Avg | | 7.71E-03 | 7.56E-03 | 7.31E-03 | 6.81E-03 | 5.72E-03 | 4.42E-03 | 2.56E-03 | 2.68E-04 |
| Std | | 5.26E-03 | 5.19E-03 | 5.11E-03 | 5.39E-03 | 4.77E-03 | 4.71E-03 | 4.04E-03 | 7.76E-04 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

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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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 | | 1.64E-06 | 1.64E-06 | 1.63E-06 | 1.82E-04 | 9.42E-05 | 1.23E-04 | 1.28E-04 | 5.33E-05 |
| Avg | | 6.40E-07 | 6.27E-07 | 6.06E-07 | 1.40E-06 | 1.05E-06 | 1.05E-06 | 3.71E-06 | 9.41E-07 |
| Std | | 4.36E-07 | 4.31E-07 | 4.24E-07 | 9.42E-06 | 6.23E-06 | 7.48E-06 | 1.37E-05 | 4.11E-06 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| 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 | | 1.64E-06 | 1.64E-06 | 1.63E-06 | 1.82E-04 | 9.42E-05 | 1.23E-04 | 1.28E-04 | 5.33E-05 |
| Avg | | 6.40E-07 | 6.27E-07 | 6.06E-07 | 1.40E-06 | 1.05E-06 | 1.05E-06 | 3.71E-06 | 9.41E-07 |
| Std | | 4.36E-07 | 4.31E-07 | 4.24E-07 | 9.42E-06 | 6.23E-06 | 7.48E-06 | 1.37E-05 | 4.11E-06 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

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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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 | | 7.80E-07 | 7.78E-07 | 7.73E-07 | 4.00E-05 | 1.93E-05 | 2.59E-05 | 2.60E-05 | 1.09E-05 |
| Avg | | 3.03E-07 | 2.97E-07 | 2.87E-07 | 4.38E-07 | 3.41E-07 | 3.13E-07 | 8.11E-07 | 1.97E-07 |
| Std | | 2.06E-07 | 2.04E-07 | 2.01E-07 | 1.99E-06 | 1.29E-06 | 1.55E-06 | 2.83E-06 | 8.44E-07 |
| ΣALL | | | | | | | | | |
| 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 | | 7.80E-07 | 7.78E-07 | 7.73E-07 | 4.00E-05 | 1.93E-05 | 2.59E-05 | 2.60E-05 | 1.09E-05 |
| Avg | | 3.03E-07 | 2.97E-07 | 2.87E-07 | 4.38E-07 | 3.41E-07 | 3.13E-07 | 8.11E-07 | 1.97E-07 |
| Std | | 2.06E-07 | 2.04E-07 | 2.01E-07 | 1.99E-06 | 1.29E-06 | 1.55E-06 | 2.83E-06 | 8.44E-07 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

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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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 | 9.79E-03 | 4.68E-03 | 6.03E-03 | 6.37E-03 | 2.67E-03 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-05 | 2.87E-05 | 3.42E-05 | 1.75E-04 | 4.60E-05 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E-04 | 3.09E-04 | 3.70E-04 | 6.80E-04 | 2.04E-04 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| 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 | 9.79E-03 | 4.68E-03 | 6.03E-03 | 6.37E-03 | 2.67E-03 |
| Avg | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.20E-05 | 2.87E-05 | 3.42E-05 | 1.75E-04 | 4.60E-05 |
| Std | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 4.77E-04 | 3.09E-04 | 3.70E-04 | 6.80E-04 | 2.04E-04 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

Probabilistic Dose vs Pathway(i): Water 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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| Min | | 1.04E-06 | 1.20E-06 | 1.52E-06 | 2.65E-06 | 2.29E-06 | 2.87E-12 | 1.20E-12 | 6.93E-14 |
| Max | | 6.35E-01 | 3.03E-01 | 4.62E-01 | 6.62E-01 | 2.45E-01 | 2.59E-01 | 5.30E-02 | 5.49E-03 |
| Avg | | 1.03E-02 | 8.87E-03 | 7.70E-03 | 6.66E-03 | 5.88E-03 | 5.82E-03 | 3.24E-03 | 5.04E-04 |
| Std | | 3.84E-02 | 2.76E-02 | 2.36E-02 | 2.60E-02 | 1.72E-02 | 1.82E-02 | 6.04E-03 | 7.82E-04 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| Min | | 1.04E-06 | 1.20E-06 | 1.52E-06 | 2.65E-06 | 2.29E-06 | 2.87E-12 | 1.20E-12 | 6.93E-14 |
| Max | | 6.35E-01 | 3.03E-01 | 4.62E-01 | 6.62E-01 | 2.45E-01 | 2.59E-01 | 5.30E-02 | 5.49E-03 |
| Avg | | 1.03E-02 | 8.87E-03 | 7.70E-03 | 6.66E-03 | 5.88E-03 | 5.82E-03 | 3.24E-03 | 5.04E-04 |
| Std | | 3.84E-02 | 2.76E-02 | 2.36E-02 | 2.60E-02 | 1.72E-02 | 1.82E-02 | 6.04E-03 | 7.82E-04 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 |
| ΣALL | | | | | | | | | |
| 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/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| 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 |
| ΣALL | | | | | | | | | |
| 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/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| Min | | 7.69E-08 | 8.85E-08 | 1.06E-07 | 1.17E-07 | 1.54E-07 | 1.07E-13 | 5.25E-14 | 2.83E-15 |
| Max | | 8.04E-02 | 5.62E-02 | 5.65E-02 | 6.41E-02 | 7.70E-02 | 8.16E-02 | 7.80E-03 | 7.72E-04 |
| Avg | | 9.63E-04 | 8.46E-04 | 7.46E-04 | 6.53E-04 | 5.87E-04 | 5.96E-04 | 2.96E-04 | 4.57E-05 |
| Std | | 4.23E-03 | 3.43E-03 | 3.00E-03 | 3.14E-03 | 3.01E-03 | 3.25E-03 | 6.82E-04 | 8.51E-05 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| Min | | 7.69E-08 | 8.85E-08 | 1.06E-07 | 1.17E-07 | 1.54E-07 | 1.07E-13 | 5.25E-14 | 2.83E-15 |
| Max | | 8.04E-02 | 5.62E-02 | 5.65E-02 | 6.41E-02 | 7.70E-02 | 8.16E-02 | 7.80E-03 | 7.72E-04 |
| Avg | | 9.63E-04 | 8.46E-04 | 7.46E-04 | 6.53E-04 | 5.87E-04 | 5.96E-04 | 2.96E-04 | 4.57E-05 |
| Std | | 4.23E-03 | 3.43E-03 | 3.00E-03 | 3.14E-03 | 3.01E-03 | 3.25E-03 | 6.82E-04 | 8.51E-05 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| Min | 7.87E-11 | 1.21E-10 | 2.13E-10 | 5.92E-10 | 6.07E-10 | 1.13E-15 | 4.23E-16 | 7.64E-18 | |
| Max | 3.95E-05 | 2.31E-05 | 2.86E-05 | 4.23E-05 | 2.05E-05 | 2.18E-05 | 3.82E-06 | 3.86E-07 | |
| Avg | 7.02E-07 | 6.04E-07 | 5.22E-07 | 4.51E-07 | 4.05E-07 | 4.11E-07 | 2.26E-07 | 3.54E-08 | |
| Std | 2.63E-06 | 1.91E-06 | 1.59E-06 | 1.72E-06 | 1.24E-06 | 1.35E-06 | 4.17E-07 | 5.35E-08 | |
| ALL | | | | | | | | | |
| Min | 7.87E-11 | 1.21E-10 | 2.13E-10 | 5.92E-10 | 6.07E-10 | 1.13E-15 | 4.23E-16 | 7.64E-18 | |
| Max | 3.95E-05 | 2.31E-05 | 2.86E-05 | 4.23E-05 | 2.05E-05 | 2.18E-05 | 3.82E-06 | 3.86E-07 | |
| Avg | 7.02E-07 | 6.04E-07 | 5.22E-07 | 4.51E-07 | 4.05E-07 | 4.11E-07 | 2.26E-07 | 3.54E-08 | |
| Std | 2.63E-06 | 1.91E-06 | 1.59E-06 | 1.72E-06 | 1.24E-06 | 1.35E-06 | 4.17E-07 | 5.35E-08 | |
| <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\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

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/> | | | | | | | | | |
| Am-241 | | | | | | | | | |
| Min | | 2.16E-11 | 2.63E-11 | 3.62E-11 | 7.40E-11 | 8.38E-11 | 1.13E-14 | 4.04E-15 | 2.13E-18 |
| Max | | 1.17E-05 | 7.73E-06 | 9.09E-06 | 1.33E-05 | 7.27E-06 | 7.70E-06 | 1.28E-06 | 1.27E-07 |
| Avg | | 2.27E-07 | 1.95E-07 | 1.69E-07 | 1.46E-07 | 1.31E-07 | 1.32E-07 | 7.15E-08 | 1.11E-08 |
| Std | | 8.43E-07 | 6.19E-07 | 5.17E-07 | 5.55E-07 | 4.17E-07 | 4.59E-07 | 1.38E-07 | 1.75E-08 |
| <hr/> | | | | | | | | | |
| ΣALL | | | | | | | | | |
| Min | | 2.16E-11 | 2.63E-11 | 3.62E-11 | 7.40E-11 | 8.38E-11 | 1.13E-14 | 4.04E-15 | 2.13E-18 |
| Max | | 1.17E-05 | 7.73E-06 | 9.09E-06 | 1.33E-05 | 7.27E-06 | 7.70E-06 | 1.28E-06 | 1.27E-07 |
| Avg | | 2.27E-07 | 1.95E-07 | 1.69E-07 | 1.46E-07 | 1.31E-07 | 1.32E-07 | 7.15E-08 | 1.11E-08 |
| Std | | 8.43E-07 | 6.19E-07 | 5.17E-07 | 5.55E-07 | 4.17E-07 | 4.59E-07 | 1.38E-07 | 1.75E-08 |
| <hr/> | | | | | | | | | |

ΣALL is total pathway dose summed for all nuclides.

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

Cumulative Probability Summary for: Total Dose Over Pathways

| Cumulative Probability | Dose(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 |
| 0.025 | 1.35E-04 | 1.40E-04 | 1.43E-04 | 1.54E-04 | 1.49E-04 | 1.01E-04 | 1.72E-05 | 7.87E-13 |
| 0.050 | 3.38E-04 | 3.53E-04 | 3.59E-04 | 3.93E-04 | 3.68E-04 | 2.28E-04 | 5.13E-05 | 1.59E-12 |
| 0.075 | 7.32E-04 | 7.35E-04 | 7.43E-04 | 8.17E-04 | 6.77E-04 | 3.96E-04 | 1.18E-04 | 2.48E-11 |
| 0.100 | 1.11E-03 | 1.16E-03 | 1.24E-03 | 1.33E-03 | 1.08E-03 | 6.28E-04 | 1.74E-04 | 7.74E-07 |
| 0.125 | 1.94E-03 | 1.96E-03 | 2.12E-03 | 2.27E-03 | 1.81E-03 | 9.44E-04 | 2.73E-04 | 4.21E-06 |
| 0.150 | 3.50E-03 | 3.64E-03 | 3.64E-03 | 3.98E-03 | 2.62E-03 | 1.47E-03 | 3.96E-04 | 1.04E-05 |
| 0.175 | 5.96E-03 | 5.94E-03 | 5.91E-03 | 5.73E-03 | 3.39E-03 | 1.96E-03 | 6.41E-04 | 1.65E-05 |
| 0.200 | 6.41E-03 | 6.42E-03 | 6.35E-03 | 6.24E-03 | 4.72E-03 | 2.46E-03 | 8.15E-04 | 2.22E-05 |
| 0.225 | 6.77E-03 | 6.78E-03 | 6.74E-03 | 6.62E-03 | 5.56E-03 | 2.94E-03 | 1.02E-03 | 3.15E-05 |
| 0.250 | 7.12E-03 | 7.10E-03 | 7.08E-03 | 6.87E-03 | 6.00E-03 | 3.43E-03 | 1.24E-03 | 4.61E-05 |
| 0.275 | 7.43E-03 | 7.42E-03 | 7.39E-03 | 7.20E-03 | 6.37E-03 | 4.10E-03 | 1.48E-03 | 6.16E-05 |
| 0.300 | 7.68E-03 | 7.68E-03 | 7.62E-03 | 7.39E-03 | 6.58E-03 | 4.58E-03 | 1.72E-03 | 8.05E-05 |
| 0.325 | 8.08E-03 | 8.07E-03 | 8.03E-03 | 7.72E-03 | 6.81E-03 | 4.98E-03 | 1.89E-03 | 9.90E-05 |
| 0.350 | 8.46E-03 | 8.49E-03 | 8.43E-03 | 8.03E-03 | 7.05E-03 | 5.24E-03 | 2.17E-03 | 1.20E-04 |
| 0.375 | 8.83E-03 | 8.83E-03 | 8.77E-03 | 8.44E-03 | 7.28E-03 | 5.63E-03 | 2.54E-03 | 1.52E-04 |
| 0.400 | 9.23E-03 | 9.21E-03 | 9.17E-03 | 8.84E-03 | 7.56E-03 | 5.88E-03 | 2.80E-03 | 1.80E-04 |
| 0.425 | 9.62E-03 | 9.61E-03 | 9.57E-03 | 9.20E-03 | 7.92E-03 | 6.13E-03 | 3.25E-03 | 2.12E-04 |
| 0.450 | 1.01E-02 | 1.01E-02 | 1.00E-02 | 9.54E-03 | 8.33E-03 | 6.33E-03 | 3.61E-03 | 2.50E-04 |
| 0.475 | 1.05E-02 | 1.05E-02 | 1.04E-02 | 9.97E-03 | 8.64E-03 | 6.62E-03 | 3.96E-03 | 3.06E-04 |
| 0.500 | 1.10E-02 | 1.10E-02 | 1.08E-02 | 1.03E-02 | 8.97E-03 | 6.94E-03 | 4.29E-03 | 3.70E-04 |
| 0.525 | 1.15E-02 | 1.15E-02 | 1.12E-02 | 1.07E-02 | 9.49E-03 | 7.20E-03 | 4.53E-03 | 4.13E-04 |
| 0.550 | 1.19E-02 | 1.19E-02 | 1.18E-02 | 1.10E-02 | 9.75E-03 | 7.53E-03 | 4.84E-03 | 4.65E-04 |
| 0.575 | 1.25E-02 | 1.24E-02 | 1.22E-02 | 1.16E-02 | 1.00E-02 | 7.90E-03 | 5.30E-03 | 5.47E-04 |
| 0.600 | 1.31E-02 | 1.29E-02 | 1.28E-02 | 1.20E-02 | 1.04E-02 | 8.37E-03 | 5.65E-03 | 5.95E-04 |
| 0.625 | 1.36E-02 | 1.33E-02 | 1.33E-02 | 1.25E-02 | 1.10E-02 | 8.85E-03 | 6.05E-03 | 6.76E-04 |
| 0.650 | 1.42E-02 | 1.41E-02 | 1.39E-02 | 1.30E-02 | 1.12E-02 | 9.21E-03 | 6.45E-03 | 7.84E-04 |
| 0.675 | 1.48E-02 | 1.48E-02 | 1.46E-02 | 1.36E-02 | 1.17E-02 | 9.80E-03 | 6.82E-03 | 8.99E-04 |
| 0.700 | 1.58E-02 | 1.57E-02 | 1.55E-02 | 1.41E-02 | 1.23E-02 | 1.02E-02 | 7.33E-03 | 9.95E-04 |
| 0.725 | 1.66E-02 | 1.65E-02 | 1.62E-02 | 1.48E-02 | 1.30E-02 | 1.08E-02 | 7.92E-03 | 1.10E-03 |
| 0.750 | 1.74E-02 | 1.73E-02 | 1.70E-02 | 1.54E-02 | 1.37E-02 | 1.16E-02 | 8.52E-03 | 1.26E-03 |
| 0.775 | 1.82E-02 | 1.80E-02 | 1.78E-02 | 1.62E-02 | 1.44E-02 | 1.26E-02 | 9.20E-03 | 1.41E-03 |
| 0.800 | 1.94E-02 | 1.92E-02 | 1.87E-02 | 1.70E-02 | 1.52E-02 | 1.37E-02 | 9.92E-03 | 1.58E-03 |
| 0.825 | 2.03E-02 | 2.00E-02 | 1.98E-02 | 1.80E-02 | 1.64E-02 | 1.48E-02 | 1.10E-02 | 1.86E-03 |
| 0.850 | 2.26E-02 | 2.22E-02 | 2.13E-02 | 1.90E-02 | 1.73E-02 | 1.53E-02 | 1.24E-02 | 2.11E-03 |
| 0.875 | 2.54E-02 | 2.46E-02 | 2.34E-02 | 2.05E-02 | 1.84E-02 | 1.64E-02 | 1.37E-02 | 2.35E-03 |
| 0.900 | 3.07E-02 | 2.85E-02 | 2.67E-02 | 2.31E-02 | 2.02E-02 | 1.96E-02 | 1.60E-02 | 2.66E-03 |
| 0.925 | 3.66E-02 | 3.49E-02 | 3.30E-02 | 2.83E-02 | 2.39E-02 | 2.28E-02 | 1.83E-02 | 3.32E-03 |
| 0.950 | 5.54E-02 | 4.80E-02 | 4.33E-02 | 3.39E-02 | 2.88E-02 | 2.85E-02 | 2.18E-02 | 3.96E-03 |
| 0.975 | 9.52E-02 | 7.83E-02 | 6.85E-02 | 4.93E-02 | 4.08E-02 | 4.96E-02 | 2.94E-02 | 5.16E-03 |
| 1.000 | 6.62E-01 | 3.69E-01 | 5.01E-01 | 7.18E-01 | 3.24E-01 | 3.41E-01 | 6.08E-02 | 1.00E-02 |

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

| 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 | 8.52E-06 | 4.28E-01 | 1.95E-02 | 1.08E-02 | 3.19E-02 | 5.82E-02 | 1.20E-01 | 2.84E-01 |
| 1.00E+00 | 8.55E-06 | 3.14E-01 | 1.79E-02 | 1.08E-02 | 3.18E-02 | 5.37E-02 | 8.05E-02 | 2.19E-01 |
| 1.06E+00 | 8.56E-06 | 3.09E-01 | 1.78E-02 | 1.08E-02 | 3.16E-02 | 5.32E-02 | 7.93E-02 | 2.16E-01 |
| 1.12E+00 | 8.56E-06 | 3.03E-01 | 1.77E-02 | 1.08E-02 | 3.13E-02 | 5.27E-02 | 7.82E-02 | 2.13E-01 |
| 1.19E+00 | 8.56E-06 | 2.97E-01 | 1.76E-02 | 1.08E-02 | 3.11E-02 | 5.22E-02 | 7.71E-02 | 2.09E-01 |
| 1.25E+00 | 8.56E-06 | 2.90E-01 | 1.76E-02 | 1.08E-02 | 3.08E-02 | 5.16E-02 | 7.60E-02 | 2.05E-01 |
| 1.33E+00 | 8.57E-06 | 2.84E-01 | 1.75E-02 | 1.08E-02 | 3.07E-02 | 5.12E-02 | 7.47E-02 | 2.02E-01 |
| 1.40E+00 | 8.57E-06 | 2.77E-01 | 1.74E-02 | 1.08E-02 | 3.10E-02 | 5.10E-02 | 7.34E-02 | 1.98E-01 |
| 1.49E+00 | 8.57E-06 | 2.71E-01 | 1.73E-02 | 1.08E-02 | 3.14E-02 | 5.08E-02 | 7.21E-02 | 1.93E-01 |
| 1.57E+00 | 8.58E-06 | 2.63E-01 | 1.72E-02 | 1.08E-02 | 3.17E-02 | 5.05E-02 | 7.09E-02 | 1.89E-01 |
| 1.66E+00 | 8.58E-06 | 2.56E-01 | 1.71E-02 | 1.08E-02 | 3.16E-02 | 5.03E-02 | 7.05E-02 | 1.85E-01 |
| 1.76E+00 | 8.58E-06 | 2.49E-01 | 1.70E-02 | 1.08E-02 | 3.16E-02 | 5.01E-02 | 7.02E-02 | 1.80E-01 |
| 1.86E+00 | 8.59E-06 | 2.41E-01 | 1.69E-02 | 1.08E-02 | 3.15E-02 | 5.11E-02 | 7.01E-02 | 1.76E-01 |
| 1.97E+00 | 8.59E-06 | 2.39E-01 | 1.68E-02 | 1.08E-02 | 3.15E-02 | 5.23E-02 | 7.00E-02 | 1.71E-01 |
| 2.09E+00 | 8.60E-06 | 2.38E-01 | 1.67E-02 | 1.08E-02 | 3.14E-02 | 5.03E-02 | 6.99E-02 | 1.66E-01 |
| 2.21E+00 | 8.60E-06 | 2.36E-01 | 1.65E-02 | 1.08E-02 | 3.13E-02 | 5.00E-02 | 6.97E-02 | 1.61E-01 |
| 2.34E+00 | 8.61E-06 | 2.34E-01 | 1.64E-02 | 1.08E-02 | 3.12E-02 | 4.98E-02 | 6.96E-02 | 1.58E-01 |
| 2.47E+00 | 8.61E-06 | 2.32E-01 | 1.63E-02 | 1.08E-02 | 3.13E-02 | 4.79E-02 | 6.95E-02 | 1.56E-01 |
| 2.62E+00 | 8.62E-06 | 2.30E-01 | 1.62E-02 | 1.08E-02 | 3.12E-02 | 4.74E-02 | 6.93E-02 | 1.55E-01 |
| 2.77E+00 | 8.62E-06 | 2.28E-01 | 1.61E-02 | 1.08E-02 | 3.11E-02 | 4.69E-02 | 6.92E-02 | 1.53E-01 |
| 2.93E+00 | 8.63E-06 | 2.26E-01 | 1.60E-02 | 1.08E-02 | 3.10E-02 | 4.65E-02 | 6.90E-02 | 1.52E-01 |
| 3.00E+00 | 8.63E-06 | 2.25E-01 | 1.59E-02 | 1.08E-02 | 3.10E-02 | 4.63E-02 | 6.90E-02 | 1.51E-01 |
| 3.10E+00 | 8.64E-06 | 2.23E-01 | 1.58E-02 | 1.08E-02 | 3.09E-02 | 4.60E-02 | 6.97E-02 | 1.50E-01 |
| 3.28E+00 | 8.65E-06 | 2.21E-01 | 1.57E-02 | 1.08E-02 | 3.08E-02 | 4.55E-02 | 7.01E-02 | 1.48E-01 |
| 3.48E+00 | 8.66E-06 | 2.18E-01 | 1.56E-02 | 1.08E-02 | 3.09E-02 | 4.52E-02 | 6.96E-02 | 1.46E-01 |
| 3.68E+00 | 8.66E-06 | 2.16E-01 | 1.55E-02 | 1.08E-02 | 3.06E-02 | 4.94E-02 | 7.08E-02 | 1.40E-01 |
| 3.89E+00 | 8.67E-06 | 2.13E-01 | 1.54E-02 | 1.08E-02 | 3.03E-02 | 4.94E-02 | 7.16E-02 | 1.31E-01 |
| 4.12E+00 | 8.68E-06 | 2.10E-01 | 1.53E-02 | 1.08E-02 | 3.03E-02 | 4.90E-02 | 7.09E-02 | 1.23E-01 |
| 4.36E+00 | 8.69E-06 | 2.07E-01 | 1.52E-02 | 1.07E-02 | 2.98E-02 | 4.47E-02 | 7.47E-02 | 1.15E-01 |
| 4.61E+00 | 8.71E-06 | 2.04E-01 | 1.51E-02 | 1.07E-02 | 2.93E-02 | 4.23E-02 | 7.60E-02 | 1.07E-01 |
| 4.88E+00 | 8.72E-06 | 2.01E-01 | 1.50E-02 | 1.07E-02 | 2.89E-02 | 4.16E-02 | 7.67E-02 | 9.90E-02 |
| 5.17E+00 | 8.73E-06 | 1.97E-01 | 1.49E-02 | 1.07E-02 | 2.85E-02 | 4.16E-02 | 7.45E-02 | 9.21E-02 |
| 5.47E+00 | 8.74E-06 | 1.94E-01 | 1.48E-02 | 1.07E-02 | 2.81E-02 | 4.23E-02 | 7.20E-02 | 9.50E-02 |
| 5.78E+00 | 8.76E-06 | 1.90E-01 | 1.47E-02 | 1.07E-02 | 2.77E-02 | 4.31E-02 | 6.94E-02 | 9.82E-02 |
| 6.12E+00 | 8.77E-06 | 1.86E-01 | 1.46E-02 | 1.06E-02 | 2.71E-02 | 4.40E-02 | 6.49E-02 | 1.02E-01 |
| 6.48E+00 | 8.79E-06 | 1.82E-01 | 1.45E-02 | 1.05E-02 | 2.68E-02 | 4.50E-02 | 5.96E-02 | 1.05E-01 |
| 6.86E+00 | 8.81E-06 | 1.78E-01 | 1.44E-02 | 1.05E-02 | 2.63E-02 | 4.46E-02 | 5.62E-02 | 1.09E-01 |
| 7.26E+00 | 8.83E-06 | 1.74E-01 | 1.43E-02 | 1.05E-02 | 2.59E-02 | 4.38E-02 | 5.28E-02 | 1.12E-01 |
| 7.68E+00 | 8.84E-06 | 1.69E-01 | 1.42E-02 | 1.04E-02 | 2.56E-02 | 4.11E-02 | 5.49E-02 | 1.09E-01 |
| 8.13E+00 | 8.86E-06 | 1.65E-01 | 1.41E-02 | 1.04E-02 | 2.52E-02 | 4.19E-02 | 5.56E-02 | 1.09E-01 |
| 8.60E+00 | 8.89E-06 | 1.60E-01 | 1.40E-02 | 1.04E-02 | 2.51E-02 | 3.82E-02 | 5.64E-02 | 1.12E-01 |
| 9.10E+00 | 8.91E-06 | 1.56E-01 | 1.39E-02 | 1.04E-02 | 2.44E-02 | 3.45E-02 | 5.72E-02 | 1.16E-01 |
| 9.63E+00 | 8.93E-06 | 1.51E-01 | 1.38E-02 | 1.03E-02 | 2.48E-02 | 3.39E-02 | 5.80E-02 | 1.19E-01 |
| 1.00E+01 | 8.95E-06 | 1.47E-01 | 1.38E-02 | 1.02E-02 | 2.43E-02 | 3.38E-02 | 5.86E-02 | 1.21E-01 |
| 1.02E+01 | 8.96E-06 | 1.46E-01 | 1.38E-02 | 1.02E-02 | 2.45E-02 | 3.72E-02 | 5.88E-02 | 1.22E-01 |
| 1.08E+01 | 8.98E-06 | 1.42E-01 | 1.37E-02 | 1.02E-02 | 2.39E-02 | 3.88E-02 | 5.94E-02 | 1.26E-01 |
| 1.14E+01 | 9.01E-06 | 1.47E-01 | 1.36E-02 | 1.02E-02 | 2.26E-02 | 3.76E-02 | 6.00E-02 | 1.29E-01 |
| 1.21E+01 | 9.04E-06 | 1.52E-01 | 1.36E-02 | 1.01E-02 | 2.27E-02 | 3.64E-02 | 6.05E-02 | 1.30E-01 |
| 1.28E+01 | 9.07E-06 | 1.57E-01 | 1.35E-02 | 1.01E-02 | 2.30E-02 | 3.51E-02 | 6.09E-02 | 1.25E-01 |
| 1.35E+01 | 9.11E-06 | 1.62E-01 | 1.34E-02 | 9.98E-03 | 2.34E-02 | 3.25E-02 | 6.19E-02 | 1.19E-01 |
| 1.43E+01 | 9.14E-06 | 1.67E-01 | 1.33E-02 | 9.90E-03 | 2.22E-02 | 3.23E-02 | 6.23E-02 | 1.14E-01 |
| 1.51E+01 | 9.18E-06 | 1.72E-01 | 1.32E-02 | 9.81E-03 | 2.22E-02 | 3.18E-02 | 6.15E-02 | 1.09E-01 |
| 1.60E+01 | 9.22E-06 | 1.78E-01 | 1.31E-02 | 9.80E-03 | 2.19E-02 | 3.16E-02 | 6.07E-02 | 1.03E-01 |
| 1.70E+01 | 9.26E-06 | 1.83E-01 | 1.30E-02 | 9.78E-03 | 2.22E-02 | 3.03E-02 | 5.98E-02 | 9.80E-02 |
| 1.80E+01 | 9.31E-06 | 1.89E-01 | 1.30E-02 | 9.70E-03 | 2.23E-02 | 3.06E-02 | 5.87E-02 | 9.27E-02 |
| 1.90E+01 | 9.35E-06 | 1.94E-01 | 1.29E-02 | 9.68E-03 | 2.28E-02 | 3.07E-02 | 5.62E-02 | 8.74E-02 |

2.01E+01 9.40E-06 1.99E-01 1.28E-02 9.69E-03 2.24E-02 3.02E-02 5.37E-02 8.98E-02

2.13E+01 9.45E-06 2.05E-01 1.27E-02 9.66E-03 2.24E-02 2.95E-02 5.28E-02 9.28E-02

2.25E+01 9.51E-06 2.10E-01 1.26E-02 9.51E-03 2.20E-02 2.95E-02 5.26E-02 9.58E-02

2.38E+01 9.56E-06 2.16E-01 1.26E-02 9.43E-03 2.14E-02 2.93E-02 5.24E-02 9.89E-02

2.52E+01 9.62E-06 2.21E-01 1.25E-02 9.27E-03 2.13E-02 2.90E-02 5.22E-02 1.02E-01

2.67E+01 9.69E-06 2.26E-01 1.25E-02 9.12E-03 2.13E-02 2.93E-02 5.08E-02 1.05E-01

2.82E+01 9.76E-06 2.31E-01 1.24E-02 8.98E-03 2.13E-02 2.95E-02 4.85E-02 1.08E-01

2.99E+01 9.83E-06 2.36E-01 1.23E-02 8.98E-03 2.13E-02 2.96E-02 4.63E-02 1.11E-01

3.00E+01 9.83E-06 2.36E-01 1.23E-02 8.97E-03 2.13E-02 2.96E-02 4.61E-02 1.12E-01

3.16E+01 2.73E-06 2.41E-01 1.23E-02 8.91E-03 2.12E-02 2.96E-02 4.42E-02 1.14E-01

3.35E+01 2.73E-06 2.45E-01 1.22E-02 8.86E-03 2.04E-02 2.95E-02 4.20E-02 1.18E-01

3.54E+01 2.72E-06 2.50E-01 1.22E-02 8.80E-03 1.98E-02 2.87E-02 3.99E-02 1.21E-01

3.75E+01 2.72E-06 2.54E-01 1.22E-02 8.69E-03 2.01E-02 2.88E-02 3.98E-02 1.24E-01

3.97E+01 2.72E-06 2.57E-01 1.21E-02 8.67E-03 1.98E-02 2.90E-02 3.98E-02 1.17E-01

4.20E+01 2.71E-06 2.61E-01 1.21E-02 8.61E-03 2.05E-02 2.88E-02 3.99E-02 1.09E-01

4.44E+01 2.71E-06 2.64E-01 1.20E-02 8.58E-03 2.04E-02 2.85E-02 4.04E-02 1.07E-01

4.70E+01 2.71E-06 2.67E-01 1.19E-02 8.49E-03 2.02E-02 2.84E-02 4.09E-02 1.10E-01

4.97E+01 2.70E-06 2.69E-01 1.18E-02 8.39E-03 2.00E-02 2.82E-02 4.14E-02 1.13E-01

5.26E+01 2.70E-06 2.72E-01 1.17E-02 8.17E-03 1.92E-02 2.80E-02 4.20E-02 1.17E-01

5.57E+01 2.69E-06 2.73E-01 1.16E-02 8.06E-03 1.91E-02 2.78E-02 4.30E-02 1.20E-01

5.90E+01 2.69E-06 2.75E-01 1.16E-02 7.97E-03 1.91E-02 2.77E-02 4.41E-02 1.24E-01

6.24E+01 2.68E-06 2.76E-01 1.16E-02 7.79E-03 1.90E-02 2.76E-02 4.52E-02 1.27E-01

6.60E+01 2.68E-06 2.77E-01 1.15E-02 7.68E-03 1.89E-02 2.78E-02 4.63E-02 1.31E-01

6.99E+01 2.65E-06 2.77E-01 1.14E-02 7.60E-03 1.85E-02 2.79E-02 4.41E-02 1.34E-01

7.39E+01 2.53E-06 2.77E-01 1.14E-02 7.59E-03 1.88E-02 2.80E-02 4.26E-02 1.38E-01

7.82E+01 2.37E-06 2.77E-01 1.13E-02 7.47E-03 1.85E-02 2.71E-02 4.32E-02 1.41E-01

8.28E+01 3.47E-08 2.76E-01 1.12E-02 7.30E-03 1.83E-02 2.64E-02 4.37E-02 1.44E-01

8.76E+01 3.10E-12 2.75E-01 1.11E-02 7.20E-03 1.83E-02 2.61E-02 4.42E-02 1.47E-01

9.27E+01 3.05E-12 2.74E-01 1.11E-02 7.14E-03 1.85E-02 2.54E-02 4.46E-02 1.51E-01

9.81E+01 3.01E-12 2.72E-01 1.10E-02 7.05E-03 1.93E-02 2.57E-02 4.50E-02 1.54E-01

1.00E+02 2.99E-12 2.72E-01 1.10E-02 7.02E-03 1.87E-02 2.58E-02 4.52E-02 1.54E-01

1.04E+02 2.96E-12 2.70E-01 1.09E-02 6.96E-03 1.88E-02 2.56E-02 4.57E-02 1.56E-01

1.10E+02 2.91E-12 2.68E-01 1.08E-02 6.89E-03 1.88E-02 2.58E-02 4.64E-02 1.59E-01

1.16E+02 2.86E-12 2.11E-01 1.05E-02 6.86E-03 1.84E-02 2.59E-02 4.71E-02 1.61E-01

1.23E+02 2.80E-12 1.73E-01 1.02E-02 6.75E-03 1.86E-02 2.60E-02 4.77E-02 1.53E-01

1.30E+02 2.74E-12 1.71E-01 9.93E-03 6.57E-03 1.87E-02 2.59E-02 4.82E-02 1.09E-01

1.38E+02 2.68E-12 1.60E-01 9.66E-03 6.58E-03 1.86E-02 2.62E-02 4.87E-02 7.85E-02

1.46E+02 2.62E-12 1.35E-01 9.24E-03 6.47E-03 1.87E-02 2.63E-02 4.89E-02 7.73E-02

1.54E+02 2.55E-12 1.21E-01 8.91E-03 6.15E-03 1.89E-02 2.62E-02 4.47E-02 5.14E-02

1.63E+02 2.48E-12 1.09E-01 8.64E-03 6.06E-03 1.86E-02 2.45E-02 3.59E-02 5.08E-02

1.73E+02 2.40E-12 9.66E-02 8.39E-03 6.09E-03 1.71E-02 2.42E-02 3.55E-02 5.11E-02

1.83E+02 2.32E-12 8.52E-02 8.26E-03 6.03E-03 1.72E-02 2.44E-02 3.54E-02 4.85E-02

1.94E+02 2.24E-12 7.47E-02 8.24E-03 5.84E-03 1.79E-02 2.56E-02 3.78E-02 4.82E-02

2.05E+02 2.16E-12 7.05E-02 8.07E-03 5.72E-03 1.77E-02 2.52E-02 3.71E-02 4.79E-02

2.17E+02 2.07E-12 6.92E-02 8.08E-03 5.74E-03 1.84E-02 2.65E-02 3.64E-02 4.75E-02

2.29E+02 1.97E-12 6.79E-02 7.87E-03 5.61E-03 1.80E-02 2.59E-02 3.73E-02 4.70E-02

2.43E+02 1.87E-12 6.64E-02 7.78E-03 5.50E-03 1.85E-02 2.52E-02 3.64E-02 4.05E-02

2.57E+02 1.77E-12 6.50E-02 7.36E-03 5.04E-03 1.79E-02 2.43E-02 3.45E-02 3.85E-02

2.72E+02 1.66E-12 6.35E-02 7.14E-03 4.76E-03 1.75E-02 2.35E-02 3.13E-02 3.98E-02

2.88E+02 1.55E-12 6.20E-02 6.92E-03 4.55E-03 1.72E-02 2.27E-02 3.04E-02 3.68E-02

3.00E+02 1.47E-12 6.08E-02 6.70E-03 4.38E-03 1.68E-02 2.20E-02 2.99E-02 3.87E-02

3.05E+02 1.44E-12 6.04E-02 6.57E-03 4.37E-03 1.66E-02 2.19E-02 2.83E-02 3.58E-02

3.22E+02 1.32E-12 5.88E-02 6.20E-03 4.17E-03 1.60E-02 2.04E-02 2.47E-02 3.49E-02

3.41E+02 1.20E-12 5.72E-02 5.75E-03 3.89E-03 1.54E-02 1.93E-02 2.32E-02 3.05E-02

3.61E+02 1.07E-12 5.56E-02 5.42E-03 3.66E-03 1.44E-02 1.89E-02 2.26E-02 2.94E-02

3.82E+02 9.41E-13 3.18E-02 5.05E-03 3.50E-03 1.39E-02 1.75E-02 2.16E-02 2.55E-02

4.04E+02 8.07E-13 3.07E-02 4.62E-03 3.10E-03 1.28E-02 1.66E-02 2.04E-02 2.53E-02

4.28E+02 6.70E-13 2.95E-02 4.39E-03 2.86E-03 1.23E-02 1.66E-02 1.86E-02 2.45E-02

4.53E+02 5.31E-13 2.84E-02 3.99E-03 2.57E-03 1.06E-02 1.47E-02 1.74E-02 2.15E-02

4.79E+02 3.90E-13 2.72E-02 3.73E-03 2.18E-03 9.70E-03 1.44E-02 1.71E-02 2.19E-02

5.07E+02 2.47E-13 2.79E-02 3.43E-03 1.87E-03 9.11E-03 1.34E-02 1.68E-02 1.93E-02

5.36E+02 1.24E-13 2.66E-02 3.21E-03 1.66E-03 8.67E-03 1.28E-02 1.63E-02 1.83E-02

5.68E+02 1.20E-13 2.52E-02 3.03E-03 1.56E-03 8.02E-03 1.20E-02 1.53E-02 1.75E-02

6.01E+02 1.17E-13 2.39E-02 2.78E-03 1.47E-03 7.39E-03 1.16E-02 1.43E-02 1.66E-02

6.36E+02 1.13E-13 2.27E-02 2.51E-03 1.32E-03 6.76E-03 1.09E-02 1.37E-02 1.54E-02

6.73E+02 1.09E-13 3.36E-02 2.35E-03 1.18E-03 6.04E-03 9.69E-03 1.29E-02 1.49E-02

7.12E+02 1.05E-13 1.58E-02 1.99E-03 9.84E-04 5.17E-03 7.73E-03 1.05E-02 1.34E-02

7.53E+02 1.01E-13 1.51E-02 1.77E-03 8.25E-04 4.78E-03 6.74E-03 9.78E-03 1.31E-02

7.97E+02 9.70E-14 1.40E-02 1.59E-03 6.35E-04 4.04E-03 6.09E-03 9.07E-03 1.15E-02

8.44E+02 9.27E-14 1.29E-02 1.41E-03 5.51E-04 3.73E-03 5.61E-03 7.61E-03 1.06E-02

| | | | | | | | | |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 8.93E+02 | 8.83E-14 | 1.18E-02 | 1.25E-03 | 4.93E-04 | 3.69E-03 | 4.99E-03 | 6.32E-03 | 9.74E-03 |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|

9.45E+02 8.38E-14 1.07E-02 1.10E-03 4.31E-04 3.12E-03 4.58E-03 5.14E-03 8.88E-03

1.00E+03 7.92E-14 9.75E-03 9.71E-04 3.90E-04 2.49E-03 3.98E-03 5.44E-03 8.05E-03

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

| 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 | 2.85E-05 | 6.62E-01 | 1.89E-02 | 1.07E-02 | 2.88E-02 | 5.19E-02 | 9.66E-02 | 2.25E-01 |
| 1.00E+00 | 2.85E-05 | 2.88E-01 | 1.73E-02 | 1.07E-02 | 2.84E-02 | 4.47E-02 | 7.54E-02 | 2.31E-01 |
| 1.06E+00 | 2.85E-05 | 2.75E-01 | 1.72E-02 | 1.07E-02 | 2.84E-02 | 4.43E-02 | 7.46E-02 | 2.31E-01 |
| 1.12E+00 | 2.85E-05 | 2.83E-01 | 1.72E-02 | 1.07E-02 | 2.84E-02 | 4.39E-02 | 7.38E-02 | 2.31E-01 |
| 1.19E+00 | 2.85E-05 | 2.91E-01 | 1.71E-02 | 1.07E-02 | 2.86E-02 | 4.30E-02 | 7.30E-02 | 2.32E-01 |
| 1.25E+00 | 2.85E-05 | 3.00E-01 | 1.71E-02 | 1.07E-02 | 2.87E-02 | 4.20E-02 | 7.21E-02 | 2.32E-01 |
| 1.33E+00 | 2.85E-05 | 3.09E-01 | 1.70E-02 | 1.07E-02 | 2.85E-02 | 4.11E-02 | 7.21E-02 | 2.19E-01 |
| 1.40E+00 | 2.85E-05 | 3.19E-01 | 1.70E-02 | 1.07E-02 | 2.84E-02 | 4.11E-02 | 7.21E-02 | 2.05E-01 |
| 1.49E+00 | 2.85E-05 | 3.29E-01 | 1.69E-02 | 1.07E-02 | 2.84E-02 | 4.09E-02 | 7.21E-02 | 1.93E-01 |
| 1.57E+00 | 2.85E-05 | 3.40E-01 | 1.69E-02 | 1.07E-02 | 2.84E-02 | 4.08E-02 | 7.21E-02 | 1.91E-01 |
| 1.66E+00 | 2.85E-05 | 3.51E-01 | 1.68E-02 | 1.07E-02 | 2.84E-02 | 4.08E-02 | 7.22E-02 | 1.89E-01 |
| 1.76E+00 | 2.85E-05 | 3.63E-01 | 1.68E-02 | 1.07E-02 | 2.84E-02 | 4.08E-02 | 7.22E-02 | 1.87E-01 |
| 1.86E+00 | 2.85E-05 | 3.75E-01 | 1.67E-02 | 1.07E-02 | 2.84E-02 | 4.15E-02 | 7.22E-02 | 1.85E-01 |
| 1.97E+00 | 2.85E-05 | 3.88E-01 | 1.67E-02 | 1.07E-02 | 2.83E-02 | 4.13E-02 | 7.23E-02 | 1.83E-01 |
| 2.09E+00 | 2.85E-05 | 4.01E-01 | 1.67E-02 | 1.07E-02 | 2.81E-02 | 4.07E-02 | 7.22E-02 | 1.81E-01 |
| 2.21E+00 | 2.85E-05 | 4.15E-01 | 1.66E-02 | 1.06E-02 | 2.78E-02 | 4.05E-02 | 7.22E-02 | 1.78E-01 |
| 2.34E+00 | 2.86E-05 | 4.30E-01 | 1.66E-02 | 1.06E-02 | 2.76E-02 | 4.04E-02 | 7.22E-02 | 1.76E-01 |
| 2.47E+00 | 2.86E-05 | 4.45E-01 | 1.65E-02 | 1.06E-02 | 2.74E-02 | 4.03E-02 | 7.21E-02 | 1.73E-01 |
| 2.62E+00 | 2.86E-05 | 4.61E-01 | 1.65E-02 | 1.06E-02 | 2.71E-02 | 4.02E-02 | 7.15E-02 | 1.71E-01 |
| 2.77E+00 | 2.86E-05 | 4.77E-01 | 1.65E-02 | 1.06E-02 | 2.68E-02 | 4.01E-02 | 6.67E-02 | 1.68E-01 |
| 2.93E+00 | 2.86E-05 | 4.94E-01 | 1.65E-02 | 1.06E-02 | 2.64E-02 | 4.00E-02 | 6.19E-02 | 1.65E-01 |
| 3.00E+00 | 2.86E-05 | 5.01E-01 | 1.65E-02 | 1.06E-02 | 2.62E-02 | 3.99E-02 | 6.04E-02 | 1.64E-01 |
| 3.10E+00 | 2.86E-05 | 5.12E-01 | 1.64E-02 | 1.06E-02 | 2.60E-02 | 3.99E-02 | 6.01E-02 | 1.62E-01 |
| 3.28E+00 | 2.86E-05 | 5.30E-01 | 1.64E-02 | 1.06E-02 | 2.56E-02 | 3.91E-02 | 5.95E-02 | 1.59E-01 |
| 3.48E+00 | 2.86E-05 | 5.50E-01 | 1.64E-02 | 1.06E-02 | 2.53E-02 | 3.67E-02 | 5.88E-02 | 1.56E-01 |
| 3.68E+00 | 2.86E-05 | 5.69E-01 | 1.64E-02 | 1.06E-02 | 2.51E-02 | 3.53E-02 | 5.87E-02 | 1.52E-01 |
| 3.89E+00 | 2.86E-05 | 5.90E-01 | 1.64E-02 | 1.06E-02 | 2.48E-02 | 3.44E-02 | 5.90E-02 | 1.49E-01 |
| 4.12E+00 | 2.86E-05 | 6.11E-01 | 1.64E-02 | 1.05E-02 | 2.45E-02 | 3.42E-02 | 5.93E-02 | 1.45E-01 |
| 4.36E+00 | 2.87E-05 | 6.33E-01 | 1.64E-02 | 1.05E-02 | 2.44E-02 | 3.41E-02 | 5.96E-02 | 1.42E-01 |
| 4.61E+00 | 2.87E-05 | 6.55E-01 | 1.64E-02 | 1.05E-02 | 2.42E-02 | 3.39E-02 | 5.98E-02 | 1.38E-01 |
| 4.88E+00 | 2.87E-05 | 6.79E-01 | 1.64E-02 | 1.05E-02 | 2.42E-02 | 3.37E-02 | 6.00E-02 | 1.34E-01 |
| 5.17E+00 | 2.87E-05 | 7.02E-01 | 1.64E-02 | 1.04E-02 | 2.41E-02 | 3.36E-02 | 6.03E-02 | 1.30E-01 |
| 5.47E+00 | 2.87E-05 | 7.27E-01 | 1.64E-02 | 1.04E-02 | 2.39E-02 | 3.34E-02 | 5.97E-02 | 1.26E-01 |
| 5.78E+00 | 2.87E-05 | 7.51E-01 | 1.65E-02 | 1.04E-02 | 2.38E-02 | 3.32E-02 | 5.82E-02 | 1.22E-01 |
| 6.12E+00 | 2.88E-05 | 7.77E-01 | 1.65E-02 | 1.04E-02 | 2.36E-02 | 3.30E-02 | 5.75E-02 | 1.18E-01 |
| 6.48E+00 | 2.88E-05 | 8.02E-01 | 1.65E-02 | 1.04E-02 | 2.34E-02 | 3.27E-02 | 5.70E-02 | 1.13E-01 |
| 6.86E+00 | 2.88E-05 | 8.29E-01 | 1.65E-02 | 1.04E-02 | 2.33E-02 | 3.25E-02 | 5.65E-02 | 1.09E-01 |
| 7.26E+00 | 2.88E-05 | 8.55E-01 | 1.66E-02 | 1.03E-02 | 2.32E-02 | 3.23E-02 | 5.60E-02 | 1.05E-01 |
| 7.68E+00 | 2.89E-05 | 8.77E-01 | 1.66E-02 | 1.02E-02 | 2.32E-02 | 3.20E-02 | 5.55E-02 | 1.00E-01 |
| 8.13E+00 | 2.89E-05 | 8.73E-01 | 1.65E-02 | 1.02E-02 | 2.29E-02 | 3.18E-02 | 5.50E-02 | 1.01E-01 |
| 8.60E+00 | 2.89E-05 | 8.37E-01 | 1.63E-02 | 1.01E-02 | 2.32E-02 | 3.15E-02 | 5.44E-02 | 1.03E-01 |
| 9.10E+00 | 2.89E-05 | 7.92E-01 | 1.61E-02 | 1.01E-02 | 2.26E-02 | 3.12E-02 | 5.43E-02 | 1.04E-01 |
| 9.63E+00 | 2.90E-05 | 7.48E-01 | 1.59E-02 | 1.01E-02 | 2.26E-02 | 3.13E-02 | 5.34E-02 | 1.06E-01 |
| 1.00E+01 | 2.90E-05 | 7.18E-01 | 1.58E-02 | 1.00E-02 | 2.25E-02 | 3.18E-02 | 5.28E-02 | 1.07E-01 |
| 1.02E+01 | 2.90E-05 | 7.03E-01 | 1.57E-02 | 1.00E-02 | 2.25E-02 | 3.20E-02 | 5.24E-02 | 1.07E-01 |
| 1.08E+01 | 2.91E-05 | 6.59E-01 | 1.55E-02 | 1.00E-02 | 2.24E-02 | 3.28E-02 | 5.23E-02 | 1.09E-01 |
| 1.14E+01 | 2.91E-05 | 6.16E-01 | 1.53E-02 | 9.95E-03 | 2.23E-02 | 3.28E-02 | 5.33E-02 | 1.11E-01 |
| 1.21E+01 | 2.91E-05 | 5.73E-01 | 1.51E-02 | 9.93E-03 | 2.23E-02 | 3.21E-02 | 5.43E-02 | 1.12E-01 |
| 1.28E+01 | 2.92E-05 | 5.30E-01 | 1.49E-02 | 9.91E-03 | 2.22E-02 | 3.06E-02 | 5.37E-02 | 1.15E-01 |
| 1.35E+01 | 2.92E-05 | 4.89E-01 | 1.47E-02 | 9.90E-03 | 2.21E-02 | 3.10E-02 | 5.19E-02 | 1.19E-01 |
| 1.43E+01 | 2.93E-05 | 4.49E-01 | 1.45E-02 | 9.82E-03 | 2.21E-02 | 3.15E-02 | 5.01E-02 | 1.24E-01 |
| 1.51E+01 | 2.93E-05 | 4.10E-01 | 1.44E-02 | 9.62E-03 | 2.20E-02 | 3.10E-02 | 4.83E-02 | 1.28E-01 |
| 1.60E+01 | 2.94E-05 | 3.72E-01 | 1.42E-02 | 9.44E-03 | 2.20E-02 | 2.93E-02 | 4.65E-02 | 1.33E-01 |
| 1.70E+01 | 2.95E-05 | 3.36E-01 | 1.40E-02 | 9.38E-03 | 2.10E-02 | 2.92E-02 | 4.57E-02 | 1.38E-01 |
| 1.80E+01 | 2.95E-05 | 3.02E-01 | 1.39E-02 | 9.39E-03 | 2.08E-02 | 2.88E-02 | 4.61E-02 | 1.43E-01 |
| 1.90E+01 | 2.96E-05 | 3.01E-01 | 1.37E-02 | 9.33E-03 | 2.11E-02 | 2.85E-02 | 4.69E-02 | 1.49E-01 |

2.01E+01 2.97E-05 3.04E-01 1.36E-02 9.26E-03 2.04E-02 2.85E-02 4.77E-02 1.54E-01

2.13E+01 2.97E-05 3.07E-01 1.35E-02 9.25E-03 2.11E-02 2.71E-02 4.86E-02 1.60E-01

2.25E+01 2.98E-05 3.09E-01 1.34E-02 9.23E-03 2.07E-02 2.71E-02 4.94E-02 1.66E-01

2.38E+01 2.99E-05 3.12E-01 1.33E-02 9.12E-03 2.02E-02 2.74E-02 5.02E-02 1.59E-01

2.52E+01 3.00E-05 3.15E-01 1.31E-02 8.99E-03 1.98E-02 2.77E-02 5.11E-02 1.37E-01

2.67E+01 3.01E-05 3.18E-01 1.30E-02 8.95E-03 1.94E-02 2.79E-02 5.20E-02 1.31E-01

2.82E+01 3.02E-05 3.21E-01 1.30E-02 8.89E-03 1.93E-02 2.77E-02 5.28E-02 1.31E-01

2.99E+01 3.03E-05 3.24E-01 1.29E-02 8.82E-03 1.91E-02 2.74E-02 5.37E-02 1.32E-01

3.00E+01 3.03E-05 3.24E-01 1.29E-02 8.82E-03 1.92E-02 2.74E-02 5.37E-02 1.32E-01

3.16E+01 3.04E-05 3.26E-01 1.28E-02 8.76E-03 1.90E-02 2.71E-02 5.45E-02 1.32E-01

3.35E+01 3.48E-06 3.29E-01 1.27E-02 8.59E-03 1.89E-02 2.69E-02 5.47E-02 1.33E-01

3.54E+01 3.48E-06 3.31E-01 1.27E-02 8.49E-03 1.91E-02 2.67E-02 4.93E-02 1.33E-01

3.75E+01 3.47E-06 3.34E-01 1.26E-02 8.27E-03 1.90E-02 2.65E-02 4.93E-02 1.33E-01

3.97E+01 3.46E-06 3.36E-01 1.25E-02 8.10E-03 1.86E-02 2.65E-02 4.99E-02 1.33E-01

4.20E+01 3.45E-06 3.38E-01 1.25E-02 8.02E-03 1.85E-02 2.60E-02 5.06E-02 1.33E-01

4.44E+01 3.44E-06 3.40E-01 1.24E-02 7.94E-03 1.82E-02 2.56E-02 5.13E-02 1.33E-01

4.70E+01 3.44E-06 3.42E-01 1.24E-02 7.82E-03 1.86E-02 2.56E-02 5.20E-02 1.33E-01

4.97E+01 3.43E-06 3.43E-01 1.24E-02 7.71E-03 1.85E-02 2.57E-02 5.27E-02 1.33E-01

5.26E+01 3.42E-06 3.45E-01 1.23E-02 7.59E-03 1.85E-02 2.59E-02 5.34E-02 1.33E-01

5.57E+01 3.40E-06 3.46E-01 1.24E-02 7.56E-03 1.87E-02 2.61E-02 5.41E-02 1.32E-01

5.90E+01 3.39E-06 3.47E-01 1.25E-02 7.50E-03 1.91E-02 2.81E-02 5.48E-02 1.32E-01

6.24E+01 3.38E-06 3.47E-01 1.25E-02 7.53E-03 1.94E-02 2.75E-02 5.54E-02 1.32E-01

6.60E+01 3.37E-06 3.48E-01 1.25E-02 7.41E-03 1.98E-02 2.72E-02 5.60E-02 1.34E-01

6.99E+01 3.33E-06 3.48E-01 1.25E-02 7.35E-03 2.07E-02 2.79E-02 5.67E-02 1.36E-01

7.39E+01 3.23E-06 3.47E-01 1.25E-02 7.29E-03 2.09E-02 2.84E-02 5.73E-02 1.38E-01

7.82E+01 3.07E-06 3.47E-01 1.24E-02 7.08E-03 2.07E-02 2.94E-02 5.79E-02 1.39E-01

8.28E+01 2.83E-06 3.46E-01 1.23E-02 6.90E-03 2.06E-02 2.99E-02 5.92E-02 1.41E-01

8.76E+01 2.54E-06 3.45E-01 1.22E-02 6.87E-03 2.07E-02 2.97E-02 6.10E-02 1.42E-01

9.27E+01 2.24E-06 3.43E-01 1.21E-02 6.79E-03 2.04E-02 2.95E-02 6.28E-02 1.43E-01

9.81E+01 2.08E-06 3.42E-01 1.20E-02 6.65E-03 2.08E-02 3.22E-02 6.46E-02 1.44E-01

1.00E+02 2.07E-06 3.41E-01 1.19E-02 6.62E-03 2.07E-02 3.31E-02 6.52E-02 1.44E-01

1.04E+02 2.06E-06 3.08E-01 1.17E-02 6.53E-03 2.06E-02 3.28E-02 6.65E-02 1.45E-01

1.10E+02 2.04E-06 2.49E-01 1.14E-02 6.40E-03 2.07E-02 3.20E-02 6.83E-02 1.45E-01

1.16E+02 2.02E-06 2.00E-01 1.11E-02 6.29E-03 2.05E-02 3.07E-02 7.02E-02 1.35E-01

1.23E+02 2.00E-06 1.58E-01 1.09E-02 6.26E-03 2.09E-02 2.99E-02 6.92E-02 1.19E-01

1.30E+02 1.46E-06 1.45E-01 1.07E-02 6.21E-03 2.12E-02 3.06E-02 6.73E-02 1.18E-01

1.38E+02 6.38E-07 1.45E-01 1.04E-02 6.04E-03 2.12E-02 3.12E-02 6.54E-02 9.44E-02

1.46E+02 2.68E-07 1.45E-01 1.02E-02 5.92E-03 2.09E-02 3.19E-02 6.31E-02 8.10E-02

1.54E+02 1.06E-07 1.43E-01 9.80E-03 5.89E-03 2.08E-02 3.22E-02 5.37E-02 8.30E-02

1.63E+02 3.99E-08 1.42E-01 9.58E-03 5.82E-03 2.00E-02 3.27E-02 4.63E-02 8.52E-02

1.73E+02 1.41E-08 1.40E-01 9.44E-03 5.76E-03 2.05E-02 2.98E-02 4.28E-02 8.49E-02

1.83E+02 4.72E-09 1.39E-01 9.22E-03 5.71E-03 1.97E-02 2.83E-02 4.15E-02 8.02E-02

1.94E+02 1.48E-09 1.37E-01 8.97E-03 5.64E-03 1.94E-02 2.55E-02 4.08E-02 7.54E-02

2.05E+02 4.33E-10 1.06E-01 8.68E-03 5.58E-03 1.82E-02 2.52E-02 4.01E-02 7.07E-02

2.17E+02 1.19E-10 9.57E-02 8.41E-03 5.52E-03 1.86E-02 2.48E-02 3.93E-02 6.61E-02

2.29E+02 3.13E-11 6.22E-02 7.98E-03 5.40E-03 1.82E-02 2.43E-02 3.69E-02 4.90E-02

2.43E+02 8.51E-12 6.04E-02 7.74E-03 5.42E-03 1.80E-02 2.35E-02 3.70E-02 4.38E-02

2.57E+02 3.01E-12 5.49E-02 7.44E-03 4.85E-03 1.79E-02 2.50E-02 3.51E-02 4.06E-02

2.72E+02 1.74E-12 4.93E-02 6.98E-03 4.60E-03 1.68E-02 2.31E-02 3.48E-02 3.96E-02

2.88E+02 1.41E-12 4.37E-02 6.50E-03 4.27E-03 1.54E-02 2.24E-02 3.28E-02 3.86E-02

3.00E+02 1.31E-12 3.96E-02 6.39E-03 4.18E-03 1.59E-02 2.12E-02 3.15E-02 3.77E-02

3.05E+02 1.28E-12 3.81E-02 6.32E-03 4.13E-03 1.58E-02 2.05E-02 3.10E-02 3.71E-02

3.22E+02 1.19E-12 3.66E-02 6.01E-03 3.96E-03 1.46E-02 1.88E-02 2.92E-02 3.47E-02

3.41E+02 1.09E-12 3.55E-02 5.57E-03 3.54E-03 1.32E-02 1.84E-02 2.72E-02 3.37E-02

3.61E+02 1.01E-12 3.44E-02 5.18E-03 3.25E-03 1.19E-02 1.72E-02 2.49E-02 3.31E-02

3.82E+02 9.13E-13 3.34E-02 4.90E-03 2.98E-03 1.20E-02 1.79E-02 2.31E-02 3.25E-02

4.04E+02 8.12E-13 3.26E-02 4.62E-03 2.82E-03 1.08E-02 1.59E-02 2.14E-02 3.18E-02

4.28E+02 7.10E-13 3.47E-02 4.45E-03 2.54E-03 1.12E-02 1.73E-02 2.00E-02 3.09E-02

4.53E+02 6.04E-13 3.33E-02 4.17E-03 2.38E-03 1.05E-02 1.69E-02 2.05E-02 2.97E-02

4.79E+02 4.98E-13 3.18E-02 3.82E-03 2.04E-03 9.35E-03 1.58E-02 1.82E-02 2.93E-02

5.07E+02 3.92E-13 3.04E-02 3.52E-03 1.75E-03 8.64E-03 1.41E-02 1.71E-02 2.71E-02

5.36E+02 2.63E-13 2.90E-02 3.25E-03 1.56E-03 7.96E-03 1.25E-02 1.63E-02 2.29E-02

5.68E+02 1.90E-13 2.94E-02 3.04E-03 1.40E-03 7.56E-03 1.21E-02 1.59E-02 1.84E-02

6.01E+02 1.47E-13 1.54E-02 2.61E-03 1.28E-03 7.19E-03 9.74E-03 1.25E-02 1.45E-02

6.36E+02 1.23E-13 1.48E-02 2.36E-03 1.12E-03 6.58E-03 9.52E-03 1.15E-02 1.27E-02

6.73E+02 1.09E-13 1.36E-02 2.15E-03 9.75E-04 6.18E-03 8.68E-03 1.02E-02 1.18E-02

7.12E+02 1.01E-13 1.28E-02 1.94E-03 8.57E-04 5.77E-03 7.97E-03 9.65E-03 1.09E-02

7.53E+02 9.54E-14 1.43E-02 1.72E-03 7.70E-04 5.08E-03 7.12E-03 8.66E-03 1.00E-02

7.97E+02 9.09E-14 1.31E-02 1.56E-03 6.85E-04 4.56E-03 6.37E-03 7.68E-03 9.19E-03

8.44E+02 8.70E-14 1.20E-02 1.40E-03 5.41E-04 4.13E-03 5.64E-03 7.10E-03 8.60E-03

8.93E+02 8.27E-14 1.22E-02 1.25E-03 4.58E-04 3.81E-03 4.96E-03 6.14E-03 7.57E-03

9.45E+02 7.89E-14 1.10E-02 1.08E-03 3.73E-04 3.25E-03 4.46E-03 5.72E-03 6.69E-03

1.00E+03 7.52E-14 1.00E-02 9.40E-04 3.25E-04 2.82E-03 3.96E-03 4.92E-03 6.00E-03

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.RAD

| 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 | 1.12E-06 | 5.28E-01 | 1.85E-02 | 1.13E-02 | 2.82E-02 | 6.01E-02 | 9.16E-02 | 1.87E-01 |
| 1.00E+00 | 1.29E-06 | 3.69E-01 | 1.67E-02 | 1.12E-02 | 2.63E-02 | 5.13E-02 | 8.19E-02 | 1.56E-01 |
| 1.06E+00 | 1.30E-06 | 3.62E-01 | 1.66E-02 | 1.12E-02 | 2.62E-02 | 5.12E-02 | 8.18E-02 | 1.54E-01 |
| 1.12E+00 | 1.31E-06 | 3.54E-01 | 1.65E-02 | 1.12E-02 | 2.62E-02 | 5.12E-02 | 8.17E-02 | 1.52E-01 |
| 1.19E+00 | 1.32E-06 | 3.46E-01 | 1.65E-02 | 1.12E-02 | 2.62E-02 | 5.11E-02 | 8.16E-02 | 1.50E-01 |
| 1.25E+00 | 1.33E-06 | 3.38E-01 | 1.64E-02 | 1.12E-02 | 2.62E-02 | 5.10E-02 | 8.15E-02 | 1.48E-01 |
| 1.33E+00 | 1.34E-06 | 3.30E-01 | 1.63E-02 | 1.12E-02 | 2.59E-02 | 5.09E-02 | 8.14E-02 | 1.46E-01 |
| 1.40E+00 | 1.36E-06 | 3.22E-01 | 1.62E-02 | 1.12E-02 | 2.58E-02 | 5.09E-02 | 8.07E-02 | 1.44E-01 |
| 1.49E+00 | 1.37E-06 | 3.13E-01 | 1.61E-02 | 1.11E-02 | 2.57E-02 | 5.08E-02 | 7.97E-02 | 1.42E-01 |
| 1.57E+00 | 1.39E-06 | 3.04E-01 | 1.60E-02 | 1.11E-02 | 2.56E-02 | 5.07E-02 | 7.87E-02 | 1.36E-01 |
| 1.66E+00 | 1.40E-06 | 2.95E-01 | 1.59E-02 | 1.11E-02 | 2.56E-02 | 5.06E-02 | 7.76E-02 | 1.30E-01 |
| 1.76E+00 | 1.42E-06 | 2.86E-01 | 1.58E-02 | 1.11E-02 | 2.55E-02 | 5.04E-02 | 7.65E-02 | 1.25E-01 |
| 1.86E+00 | 1.44E-06 | 2.77E-01 | 1.58E-02 | 1.11E-02 | 2.51E-02 | 5.03E-02 | 7.59E-02 | 1.19E-01 |
| 1.97E+00 | 1.45E-06 | 2.68E-01 | 1.57E-02 | 1.11E-02 | 2.48E-02 | 5.00E-02 | 7.55E-02 | 1.13E-01 |
| 2.09E+00 | 1.47E-06 | 2.58E-01 | 1.56E-02 | 1.11E-02 | 2.47E-02 | 4.95E-02 | 7.50E-02 | 1.07E-01 |
| 2.21E+00 | 1.49E-06 | 2.49E-01 | 1.55E-02 | 1.11E-02 | 2.42E-02 | 4.89E-02 | 7.46E-02 | 1.02E-01 |
| 2.34E+00 | 1.52E-06 | 2.40E-01 | 1.54E-02 | 1.11E-02 | 2.36E-02 | 4.83E-02 | 7.41E-02 | 9.81E-02 |
| 2.47E+00 | 1.54E-06 | 2.30E-01 | 1.53E-02 | 1.11E-02 | 2.33E-02 | 4.76E-02 | 7.36E-02 | 9.74E-02 |
| 2.62E+00 | 1.56E-06 | 2.21E-01 | 1.51E-02 | 1.11E-02 | 2.34E-02 | 4.70E-02 | 7.30E-02 | 9.67E-02 |
| 2.77E+00 | 1.59E-06 | 2.12E-01 | 1.50E-02 | 1.11E-02 | 2.34E-02 | 4.63E-02 | 7.25E-02 | 9.60E-02 |
| 2.93E+00 | 1.62E-06 | 2.02E-01 | 1.49E-02 | 1.11E-02 | 2.36E-02 | 4.60E-02 | 7.18E-02 | 9.52E-02 |
| 3.00E+00 | 1.63E-06 | 1.99E-01 | 1.49E-02 | 1.11E-02 | 2.38E-02 | 4.59E-02 | 7.05E-02 | 9.49E-02 |
| 3.10E+00 | 1.65E-06 | 1.93E-01 | 1.48E-02 | 1.11E-02 | 2.42E-02 | 4.57E-02 | 6.86E-02 | 9.44E-02 |
| 3.28E+00 | 1.68E-06 | 1.85E-01 | 1.47E-02 | 1.11E-02 | 2.44E-02 | 4.55E-02 | 6.55E-02 | 9.36E-02 |
| 3.48E+00 | 1.71E-06 | 1.76E-01 | 1.46E-02 | 1.11E-02 | 2.45E-02 | 4.53E-02 | 6.31E-02 | 9.27E-02 |
| 3.68E+00 | 1.75E-06 | 1.68E-01 | 1.45E-02 | 1.11E-02 | 2.44E-02 | 4.51E-02 | 6.20E-02 | 9.17E-02 |
| 3.89E+00 | 1.78E-06 | 1.60E-01 | 1.44E-02 | 1.11E-02 | 2.43E-02 | 4.48E-02 | 6.14E-02 | 9.08E-02 |
| 4.12E+00 | 1.82E-06 | 1.52E-01 | 1.43E-02 | 1.10E-02 | 2.42E-02 | 4.29E-02 | 6.07E-02 | 8.97E-02 |
| 4.36E+00 | 1.86E-06 | 1.44E-01 | 1.42E-02 | 1.10E-02 | 2.41E-02 | 4.16E-02 | 6.01E-02 | 8.86E-02 |
| 4.61E+00 | 1.91E-06 | 1.37E-01 | 1.41E-02 | 1.11E-02 | 2.40E-02 | 3.95E-02 | 5.94E-02 | 8.75E-02 |
| 4.88E+00 | 1.95E-06 | 1.31E-01 | 1.41E-02 | 1.11E-02 | 2.39E-02 | 3.79E-02 | 5.87E-02 | 8.64E-02 |
| 5.17E+00 | 2.00E-06 | 1.25E-01 | 1.40E-02 | 1.11E-02 | 2.41E-02 | 3.69E-02 | 5.80E-02 | 8.51E-02 |
| 5.47E+00 | 2.06E-06 | 1.19E-01 | 1.39E-02 | 1.10E-02 | 2.37E-02 | 4.01E-02 | 5.72E-02 | 8.39E-02 |
| 5.78E+00 | 2.11E-06 | 1.13E-01 | 1.38E-02 | 1.10E-02 | 2.36E-02 | 3.97E-02 | 5.64E-02 | 8.32E-02 |
| 6.12E+00 | 2.17E-06 | 1.09E-01 | 1.37E-02 | 1.10E-02 | 2.36E-02 | 3.92E-02 | 5.56E-02 | 8.28E-02 |
| 6.48E+00 | 2.23E-06 | 1.04E-01 | 1.36E-02 | 1.09E-02 | 2.36E-02 | 3.88E-02 | 5.48E-02 | 8.23E-02 |
| 6.86E+00 | 2.30E-06 | 1.00E-01 | 1.35E-02 | 1.09E-02 | 2.34E-02 | 3.85E-02 | 5.39E-02 | 8.18E-02 |
| 7.26E+00 | 2.37E-06 | 9.65E-02 | 1.34E-02 | 1.09E-02 | 2.25E-02 | 3.78E-02 | 5.20E-02 | 8.13E-02 |
| 7.68E+00 | 2.44E-06 | 9.70E-02 | 1.34E-02 | 1.08E-02 | 2.28E-02 | 3.75E-02 | 4.99E-02 | 8.09E-02 |
| 8.13E+00 | 2.52E-06 | 9.76E-02 | 1.33E-02 | 1.08E-02 | 2.25E-02 | 3.75E-02 | 4.75E-02 | 8.04E-02 |
| 8.60E+00 | 2.60E-06 | 9.83E-02 | 1.33E-02 | 1.08E-02 | 2.29E-02 | 4.01E-02 | 5.01E-02 | 7.99E-02 |
| 9.10E+00 | 2.69E-06 | 9.89E-02 | 1.33E-02 | 1.07E-02 | 2.27E-02 | 3.88E-02 | 4.90E-02 | 7.95E-02 |
| 9.63E+00 | 2.78E-06 | 9.95E-02 | 1.32E-02 | 1.07E-02 | 2.25E-02 | 3.73E-02 | 5.02E-02 | 7.90E-02 |
| 1.00E+01 | 2.85E-06 | 1.00E-01 | 1.31E-02 | 1.07E-02 | 2.24E-02 | 3.54E-02 | 4.77E-02 | 7.88E-02 |
| 1.02E+01 | 2.88E-06 | 1.00E-01 | 1.31E-02 | 1.07E-02 | 2.24E-02 | 3.47E-02 | 4.79E-02 | 7.86E-02 |
| 1.08E+01 | 2.99E-06 | 1.01E-01 | 1.29E-02 | 1.06E-02 | 2.21E-02 | 3.40E-02 | 4.85E-02 | 7.82E-02 |
| 1.14E+01 | 3.10E-06 | 1.01E-01 | 1.28E-02 | 1.05E-02 | 2.13E-02 | 3.28E-02 | 4.91E-02 | 7.93E-02 |
| 1.21E+01 | 3.22E-06 | 1.02E-01 | 1.26E-02 | 1.04E-02 | 2.12E-02 | 3.13E-02 | 4.76E-02 | 7.72E-02 |
| 1.28E+01 | 3.34E-06 | 1.03E-01 | 1.25E-02 | 1.03E-02 | 2.09E-02 | 2.97E-02 | 4.81E-02 | 7.67E-02 |
| 1.35E+01 | 2.74E-06 | 1.03E-01 | 1.24E-02 | 1.03E-02 | 2.09E-02 | 3.07E-02 | 4.86E-02 | 7.63E-02 |
| 1.43E+01 | 2.73E-06 | 1.04E-01 | 1.23E-02 | 1.02E-02 | 2.08E-02 | 3.06E-02 | 4.76E-02 | 7.59E-02 |
| 1.51E+01 | 2.73E-06 | 1.04E-01 | 1.23E-02 | 1.01E-02 | 2.07E-02 | 2.99E-02 | 4.66E-02 | 7.56E-02 |
| 1.60E+01 | 2.73E-06 | 1.05E-01 | 1.22E-02 | 1.01E-02 | 2.06E-02 | 2.92E-02 | 4.55E-02 | 7.53E-02 |
| 1.70E+01 | 2.72E-06 | 1.05E-01 | 1.22E-02 | 1.00E-02 | 2.06E-02 | 2.92E-02 | 4.43E-02 | 7.49E-02 |
| 1.80E+01 | 2.72E-06 | 1.06E-01 | 1.22E-02 | 9.99E-03 | 2.05E-02 | 2.97E-02 | 4.30E-02 | 7.46E-02 |
| 1.90E+01 | 2.72E-06 | 1.06E-01 | 1.21E-02 | 9.95E-03 | 2.03E-02 | 2.95E-02 | 4.14E-02 | 7.43E-02 |

2.01E+01 2.71E-06 1.07E-01 1.21E-02 9.85E-03 2.03E-02 3.04E-02 3.98E-02 7.66E-02

2.13E+01 2.71E-06 1.07E-01 1.21E-02 9.71E-03 2.07E-02 3.03E-02 3.94E-02 7.64E-02

2.25E+01 2.70E-06 1.07E-01 1.20E-02 9.68E-03 2.13E-02 3.06E-02 3.87E-02 7.62E-02

2.38E+01 2.70E-06 1.08E-01 1.20E-02 9.58E-03 2.16E-02 3.09E-02 3.79E-02 7.60E-02

2.52E+01 2.69E-06 1.08E-01 1.19E-02 9.58E-03 2.18E-02 3.07E-02 3.70E-02 7.59E-02

2.67E+01 2.69E-06 1.08E-01 1.19E-02 9.50E-03 2.12E-02 3.11E-02 3.66E-02 7.57E-02

2.82E+01 2.68E-06 1.08E-01 1.18E-02 9.40E-03 2.13E-02 3.15E-02 3.71E-02 7.55E-02

2.99E+01 2.67E-06 1.08E-01 1.17E-02 9.28E-03 2.19E-02 3.16E-02 3.76E-02 7.53E-02

3.00E+01 2.67E-06 1.08E-01 1.17E-02 9.28E-03 2.19E-02 3.16E-02 3.77E-02 7.53E-02

3.16E+01 2.67E-06 1.08E-01 1.16E-02 9.22E-03 2.21E-02 3.05E-02 3.82E-02 7.51E-02

3.35E+01 2.66E-06 1.08E-01 1.16E-02 9.05E-03 2.14E-02 2.94E-02 3.87E-02 7.49E-02

3.54E+01 2.65E-06 1.08E-01 1.15E-02 8.96E-03 2.16E-02 2.92E-02 3.92E-02 7.47E-02

3.75E+01 2.65E-06 1.08E-01 1.14E-02 8.87E-03 2.16E-02 2.92E-02 4.08E-02 7.45E-02

3.97E+01 2.64E-06 1.08E-01 1.14E-02 8.72E-03 2.20E-02 2.93E-02 4.31E-02 7.42E-02

4.20E+01 2.63E-06 1.08E-01 1.13E-02 8.63E-03 2.18E-02 2.93E-02 4.54E-02 7.40E-02

4.44E+01 2.62E-06 1.08E-01 1.11E-02 8.56E-03 2.07E-02 2.90E-02 4.76E-02 7.37E-02

4.70E+01 2.61E-06 1.07E-01 1.10E-02 8.48E-03 2.00E-02 2.81E-02 4.99E-02 7.35E-02

4.97E+01 2.60E-06 1.07E-01 1.09E-02 8.40E-03 2.00E-02 2.80E-02 5.21E-02 7.33E-02

5.26E+01 2.59E-06 1.45E-01 1.11E-02 8.21E-03 1.97E-02 2.87E-02 5.43E-02 7.54E-02

5.57E+01 2.58E-06 1.28E-01 1.10E-02 8.09E-03 1.89E-02 2.89E-02 5.51E-02 7.83E-02

5.90E+01 2.57E-06 1.09E-01 1.09E-02 8.06E-03 1.95E-02 2.88E-02 5.56E-02 8.13E-02

6.24E+01 2.56E-06 1.05E-01 1.08E-02 7.94E-03 2.04E-02 2.88E-02 5.61E-02 8.44E-02

6.60E+01 2.54E-06 1.04E-01 1.07E-02 7.98E-03 2.03E-02 2.87E-02 5.66E-02 7.24E-02

6.99E+01 2.51E-06 1.04E-01 1.07E-02 7.92E-03 2.06E-02 3.26E-02 5.12E-02 7.07E-02

7.39E+01 2.42E-06 1.03E-01 1.06E-02 7.79E-03 2.06E-02 3.35E-02 4.96E-02 7.02E-02

7.82E+01 2.30E-06 1.03E-01 1.05E-02 7.70E-03 2.06E-02 2.98E-02 4.98E-02 6.98E-02

8.28E+01 2.25E-06 1.02E-01 1.04E-02 7.57E-03 2.02E-02 3.03E-02 5.03E-02 6.93E-02

8.76E+01 2.23E-06 1.01E-01 1.01E-02 7.34E-03 1.99E-02 3.09E-02 5.08E-02 6.88E-02

9.27E+01 2.21E-06 1.00E-01 1.00E-02 7.24E-03 1.99E-02 3.15E-02 5.12E-02 6.83E-02

9.81E+01 2.19E-06 9.93E-02 1.00E-02 7.19E-03 2.02E-02 3.21E-02 5.16E-02 6.89E-02

1.00E+02 2.19E-06 9.90E-02 9.96E-03 7.13E-03 2.02E-02 3.23E-02 5.17E-02 6.94E-02

1.04E+02 2.17E-06 9.84E-02 9.91E-03 7.07E-03 2.02E-02 3.25E-02 5.23E-02 6.95E-02

1.10E+02 2.15E-06 9.75E-02 9.83E-03 6.89E-03 2.02E-02 3.29E-02 5.23E-02 7.02E-02

1.16E+02 1.60E-06 9.65E-02 9.74E-03 6.79E-03 2.02E-02 3.15E-02 5.26E-02 7.08E-02

1.23E+02 5.88E-07 9.54E-02 9.59E-03 6.61E-03 2.02E-02 3.10E-02 5.29E-02 6.72E-02

1.30E+02 5.42E-08 9.43E-02 9.42E-03 6.56E-03 1.95E-02 3.05E-02 5.16E-02 6.52E-02

1.38E+02 2.33E-11 9.32E-02 9.28E-03 6.40E-03 1.92E-02 3.00E-02 4.92E-02 6.40E-02

1.46E+02 2.28E-11 9.20E-02 9.13E-03 6.32E-03 1.89E-02 2.96E-02 4.59E-02 6.57E-02

1.54E+02 2.24E-11 9.08E-02 8.95E-03 6.11E-03 1.88E-02 2.91E-02 4.27E-02 6.28E-02

1.63E+02 2.20E-11 8.95E-02 8.80E-03 6.00E-03 1.83E-02 2.86E-02 3.99E-02 6.09E-02

1.73E+02 2.15E-11 8.42E-02 8.79E-03 5.88E-03 1.89E-02 3.31E-02 3.91E-02 6.00E-02

1.83E+02 2.10E-11 6.43E-02 8.45E-03 5.77E-03 1.83E-02 2.97E-02 3.87E-02 5.67E-02

1.94E+02 2.04E-11 6.09E-02 8.20E-03 5.65E-03 1.81E-02 2.69E-02 3.87E-02 5.59E-02

2.05E+02 1.98E-11 5.75E-02 7.99E-03 5.55E-03 1.77E-02 2.64E-02 3.69E-02 5.52E-02

2.17E+02 1.92E-11 5.62E-02 7.80E-03 5.41E-03 1.73E-02 2.58E-02 3.54E-02 5.31E-02

2.29E+02 1.86E-11 5.52E-02 7.69E-03 5.28E-03 1.70E-02 2.57E-02 3.38E-02 5.06E-02

2.43E+02 1.79E-11 5.42E-02 7.48E-03 5.10E-03 1.73E-02 2.56E-02 3.26E-02 4.72E-02

2.57E+02 1.72E-11 5.32E-02 7.25E-03 4.91E-03 1.68E-02 2.55E-02 3.19E-02 4.42E-02

2.72E+02 1.64E-11 5.22E-02 7.09E-03 4.66E-03 1.68E-02 2.62E-02 3.16E-02 4.88E-02

2.88E+02 1.56E-11 4.98E-02 6.73E-03 4.55E-03 1.55E-02 2.63E-02 3.09E-02 4.09E-02

3.00E+02 1.50E-11 4.89E-02 6.35E-03 4.20E-03 1.52E-02 2.23E-02 2.92E-02 3.77E-02

3.05E+02 1.47E-11 4.85E-02 6.25E-03 4.08E-03 1.45E-02 2.17E-02 2.89E-02 3.69E-02

3.22E+02 1.38E-11 4.72E-02 6.00E-03 3.87E-03 1.45E-02 2.26E-02 2.79E-02 3.40E-02

3.41E+02 1.29E-11 4.58E-02 5.68E-03 3.72E-03 1.40E-02 2.00E-02 2.69E-02 3.11E-02

3.61E+02 1.18E-11 4.44E-02 5.36E-03 3.34E-03 1.31E-02 1.84E-02 2.54E-02 2.93E-02

3.82E+02 1.08E-11 4.29E-02 4.99E-03 3.11E-03 1.22E-02 1.69E-02 2.38E-02 2.83E-02

4.04E+02 9.62E-12 4.14E-02 4.70E-03 2.86E-03 1.13E-02 1.65E-02 2.14E-02 2.72E-02

4.28E+02 8.40E-12 3.99E-02 4.35E-03 2.64E-03 1.08E-02 1.41E-02 1.93E-02 2.59E-02

4.53E+02 2.71E-12 3.83E-02 4.26E-03 2.53E-03 1.07E-02 1.57E-02 1.89E-02 3.10E-02

4.79E+02 1.97E-12 2.98E-02 3.78E-03 2.21E-03 9.88E-03 1.37E-02 1.61E-02 2.21E-02

5.07E+02 1.44E-12 2.84E-02 3.48E-03 2.05E-03 9.17E-03 1.22E-02 1.59E-02 2.12E-02

5.36E+02 1.11E-12 2.70E-02 3.20E-03 1.79E-03 8.43E-03 1.15E-02 1.42E-02 1.97E-02

5.68E+02 9.32E-13 2.84E-02 2.97E-03 1.64E-03 7.91E-03 1.10E-02 1.29E-02 1.53E-02

6.01E+02 8.25E-13 2.86E-02 2.67E-03 1.34E-03 7.02E-03 9.01E-03 1.19E-02 1.43E-02

6.36E+02 7.56E-13 2.78E-02 2.45E-03 1.16E-03 6.57E-03 7.81E-03 1.10E-02 1.69E-02

6.73E+02 4.01E-13 1.63E-02 2.16E-03 1.01E-03 5.62E-03 7.83E-03 1.04E-02 1.24E-02

7.12E+02 3.83E-13 1.53E-02 1.96E-03 8.94E-04 5.30E-03 6.82E-03 9.90E-03 1.14E-02

7.53E+02 2.85E-13 1.36E-02 1.75E-03 8.14E-04 4.61E-03 6.37E-03 8.92E-03 1.16E-02

7.97E+02 2.35E-13 1.25E-02 1.55E-03 7.15E-04 4.25E-03 5.95E-03 8.19E-03 9.54E-03

8.44E+02 2.18E-13 1.15E-02 1.38E-03 6.10E-04 4.02E-03 5.52E-03 7.19E-03 8.66E-03

8.93E+02 2.11E-13 1.26E-02 1.24E-03 5.14E-04 3.53E-03 5.02E-03 6.81E-03 7.82E-03

9.45E+02 1.98E-13 1.19E-02 1.08E-03 4.56E-04 3.07E-03 4.46E-03 6.17E-03 7.27E-03

1.00E+03 1.85E-13 8.34E-03 9.26E-04 3.71E-04 2.67E-03 4.14E-03 5.41E-03 6.21E-03

Probabilistic results summary : RESRAD Default Parameters

File : C:\USERS\DNF\DOCUMENTS\FT CALHOUN\RESRAD INPUT FILES\BFM INSITU UNCERTAINTY ANALYSIS\FCS BURIED PIPE INSITU UA AM-241.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 | 1.949E-02 |
| 2 | 0.000E+00 | 1.887E-02 |
| 3 | 0.000E+00 | 1.846E-02 |

Title : RESRAD Default Parameters
Input File : FCS BURIED PIPE INSITU UA AM-241.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 | 12 0.04 | 12 0.04 | 15 -0.04 | 15 -0.03 |
| Contaminated zone b parameter | 2 -0.10 | 2 -0.10 | 9 -0.10 | 9 -0.07 |
| Evapotranspiration coefficient | 15 0.02 | 15 0.02 | 12 0.06 | 12 0.04 |
| Wind Speed | 16 -0.01 | 16 -0.01 | 17 0.01 | 17 0.01 |
| Runoff coefficient | 10 -0.05 | 11 -0.05 | 13 -0.05 | 13 -0.03 |
| b Parameter of Unsaturated zone 1 | 8 -0.06 | 8 -0.06 | 16 0.02 | 16 0.01 |
| Mass loading for inhalation | 6 0.07 | 6 0.07 | 7 0.12 | 7 0.09 |
| Indoor dust filtration factor | 17 -0.01 | 17 -0.01 | 14 0.04 | 14 0.03 |
| Depth of soil mixing layer | 11 0.05 | 10 0.05 | 10 -0.09 | 10 -0.07 |
| Depth of roots | 7 -0.07 | 7 -0.07 | 4 -0.24 | 4 -0.19 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 14 -0.02 | 14 -0.02 | 11 -0.07 | 11 -0.06 |
| Weathering removal constant of all vegetation | 4 -0.09 | 4 -0.08 | 6 -0.13 | 6 -0.10 |
| Wet foliar interception fraction of leafy vegetables | 13 0.04 | 13 0.03 | 18 -0.01 | 18 -0.01 |
| Humidity in air | 18 -0.01 | 18 -0.01 | 8 -0.10 | 8 -0.08 |
| Cover erosion rate | 5 0.09 | 5 0.08 | 2 0.37 | 2 0.31 |
| Kd of Am-241 in Contaminated Zone | 3 -0.09 | 3 -0.09 | 1 -0.46 | 1 -0.40 |
| Kd of Am-241 in Saturated Zone | 9 -0.06 | 9 -0.06 | 5 -0.16 | 5 -0.13 |
| Well pump intake depth | 1 -0.22 | 1 -0.21 | 3 -0.34 | 3 -0.27 |
| R-SQUARE | 0.10 | 0.10 | 0.42 | 0.42 |

-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 AM-241.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 | 12 | -0.03 | 12 | -0.03 | 13 | -0.05 | 13 | -0.04 |
| Contaminated zone b parameter | 6 | 0.05 | 6 | 0.05 | 8 | -0.08 | 9 | -0.06 |
| Evapotranspiration coefficient | 16 | 0.01 | 16 | 0.01 | 7 | 0.08 | 7 | 0.06 |
| Wind Speed | 3 | 0.10 | 3 | 0.09 | 10 | 0.08 | 10 | 0.05 |
| Runoff coefficient | 11 | 0.03 | 11 | 0.03 | 14 | 0.05 | 14 | 0.03 |
| b Parameter of Unsaturated zone 1 | 18 | -0.01 | 18 | -0.01 | 9 | 0.08 | 8 | 0.06 |
| Mass loading for inhalation | 10 | 0.03 | 10 | 0.03 | 6 | -0.13 | 6 | -0.09 |
| Indoor dust filtration factor | 5 | 0.06 | 5 | 0.06 | 16 | -0.02 | 16 | -0.02 |
| Depth of soil mixing layer | 9 | 0.03 | 9 | 0.03 | 17 | -0.02 | 17 | -0.01 |
| Depth of roots | 4 | -0.07 | 4 | -0.07 | 5 | -0.27 | 5 | -0.20 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 15 | -0.01 | 15 | -0.01 | 18 | -0.02 | 18 | -0.01 |
| Weathering removal constant of all vegetation | 8 | 0.04 | 8 | 0.04 | 11 | 0.05 | 11 | 0.04 |
| Wet foliar interception fraction of leafy vegetables | 17 | 0.01 | 17 | 0.01 | 15 | 0.04 | 15 | 0.03 |
| Humidity in air | 13 | 0.02 | 13 | 0.02 | 12 | -0.05 | 12 | -0.04 |
| Cover erosion rate | 1 | 0.22 | 1 | 0.22 | 2 | 0.46 | 2 | 0.37 |
| Kd of Am-241 in Contaminated Zone | 7 | -0.05 | 7 | -0.05 | 1 | -0.50 | 1 | -0.41 |
| Kd of Am-241 in Saturated Zone | 14 | -0.02 | 14 | -0.02 | 4 | -0.32 | 4 | -0.24 |
| Well pump intake depth | 2 | -0.16 | 2 | -0.16 | 3 | -0.41 | 3 | -0.32 |

| | | | | |
|----------|------|------|------|------|
| R-SQUARE | 0.10 | 0.10 | 0.51 | 0.51 |
|----------|------|------|------|------|

-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 AM-241.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 | 13 | -0.02 | 12 | -0.02 | 9 | 0.04 | 9 | 0.03 |
| Contaminated zone b parameter | 12 | -0.02 | 13 | -0.02 | 12 | 0.02 | 12 | 0.02 |
| Evapotranspiration coefficient | 6 | -0.06 | 6 | -0.06 | 16 | 0.01 | 16 | 0.01 |
| Wind Speed | 3 | -0.11 | 3 | -0.11 | 7 | -0.06 | 7 | -0.05 |
| Runoff coefficient | 10 | 0.03 | 10 | 0.03 | 17 | -0.01 | 17 | -0.01 |
| b Parameter of Unsaturated zone 1 | 11 | -0.03 | 11 | -0.02 | 14 | -0.02 | 14 | -0.01 |
| Mass loading for inhalation | 16 | 0.01 | 16 | 0.01 | 8 | 0.05 | 8 | 0.04 |
| Indoor dust filtration factor | 8 | -0.03 | 8 | -0.03 | 11 | 0.03 | 11 | 0.02 |
| Depth of soil mixing layer | 2 | -0.12 | 2 | -0.11 | 6 | -0.10 | 6 | -0.07 |
| Depth of roots | 4 | -0.10 | 4 | -0.10 | 4 | -0.28 | 4 | -0.22 |
| Wet weight crop yield of fruit, grain and non-leafy vegetables | 15 | -0.01 | 15 | -0.01 | 13 | -0.02 | 13 | -0.02 |
| Weathering removal constant of all vegetation | 9 | -0.03 | 9 | -0.03 | 15 | 0.02 | 15 | 0.01 |
| Wet foliar interception fraction of leafy vegetables | 18 | 0.00 | 18 | 0.00 | 18 | 0.00 | 18 | 0.00 |
| Humidity in air | 17 | -0.01 | 17 | -0.01 | 10 | -0.04 | 10 | -0.03 |
| Cover erosion rate | 5 | 0.08 | 5 | 0.08 | 1 | 0.47 | 1 | 0.40 |
| Kd of Am-241 in Contaminated Zone | 14 | -0.02 | 14 | -0.01 | 2 | -0.45 | 2 | -0.38 |
| Kd of Am-241 in Saturated Zone | 7 | -0.05 | 7 | -0.05 | 5 | -0.22 | 5 | -0.17 |
| Well pump intake depth | 1 | -0.24 | 1 | -0.23 | 3 | -0.35 | 3 | -0.28 |

| | | | | |
|----------|------|------|------|------|
| R-SQUARE | 0.10 | 0.10 | 0.45 | 0.45 |
|----------|------|------|------|------|

-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.