## Table of Contents

Part I: Mixture Sums and Single Radionuclide Guidelines

- Dose Conversion Factor (and Related) Parameter Summary ... 2
- Site-Specific Parameter Summary .......................... 5
- Summary of Pathway Selections ............................ 35
- Contaminated Zone and Total Dose Summary ............ 36

Total Dose Components
- Time = 0.000E+00 .......................................... 37
- Time = 1.000E+00 .......................................... 38
- Time = 3.000E+00 .......................................... 39
- Time = 6.000E+00 .......................................... 40
- Time = 1.200E+01 .......................................... 41
- Time = 3.000E+01 .......................................... 42
- Time = 7.500E+01 .......................................... 43
- Time = 1.750E+02 .......................................... 44
- Time = 4.200E+02 .......................................... 45
- Time = 9.700E+02 .......................................... 46

Dose/Source Ratios Summed Over All Pathways .......... 47

Single Radionuclide Soil Guidelines ........................ 47

Dose Per Nuclide Summed Over All Pathways ............. 48

Soil Concentration Per Nuclide .............................. 48

Run Time Information ........................................ 49
# Dose Conversion Factor (and Related) Parameter Summary

## Current Library: PGR 12

<table>
<thead>
<tr>
<th>Menu</th>
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### Dose Conversion Factor (and Related) Parameter Summary (continued)

**Current Library:** RESRAD Default Transfer factors

**Default Library:** RESRAD Default Transfer factors

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

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Default Library: RESRAD Default Transfer factors

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## Site-Specific Parameter Summary (continued)

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### DCIR

| DCIR | Distribution coefficients for Sr-90 | | | | |
|------|-------------------------------------|------|--------|----------|
|      | Contaminated zone (cm**3/g)         | 5.000E+00 | 3.000E+01 | --- | DCNITCH (4) |
|      | Unsaturated zone 1 (cm**3/g)        | 5.000E+00 | 3.000E+01 | --- | DCSUCU (4,1) |
|      | Saturated zone (cm**3/g)            | 5.000E+00 | 3.000E+01 | --- | DCNICS (4) |
|      | Sediment in surface water body (cm**3/g) | 1.500E+01 | 3.000E+01 | --- | DCSWMSB (4) |
|      | Agricultural area 1 (cm**3/g)       | 5.000E+00 | 3.000E+01 | --- | DCNICOF (4,1) |
|      | Agricultural area 2 (cm**3/g)       | 5.000E+00 | 3.000E+01 | --- | DCNICOF (4,2) |
|      | Agricultural area 3 (cm**3/g)       | 5.000E+00 | 3.000E+01 | --- | DCNICOF (4,3) |
|      | Agricultural area 4 (cm**3/g)       | 5.000E+00 | 3.000E+01 | --- | DCNICOF (4,4) |
|      | Offsite Dwelling (cm**3/g)          | 5.000E+00 | 3.000E+01 | --- | DCNSDCME (4) |
|      | Initial Leach rate (yr) Sr-90      | 0.000E+00 | 0.000E+00 | 2.989E-02 | ALEACH (4) |

### DCIR

| DCIR | Distribution coefficients for progeny Np-237 | | | | |
|------|---------------------------------------------|------|--------|----------|
|      | Contaminated zone (cm**3/g)                 | 2.300E+00 | 2.570E+02 | --- | DCNITCH (3) |
|      | Unsaturated zone 1 (cm**3/g)                | 2.300E+00 | 2.570E+02 | --- | DCSUCU (3,1) |
|      | Saturated zone (cm**3/g)                    | 2.300E+00 | 2.570E+02 | --- | DCNICS (3) |
|      | Sediment in surface water body (cm**3/g)    | 3.000E+00 | 2.570E+02 | --- | DCSWMSB (3) |
|      | Agricultural area 1 (cm**3/g)               | 2.300E+00 | 2.570E+02 | --- | DCNICOF (3,1) |
|      | Agricultural area 2 (cm**3/g)               | 2.300E+00 | 2.570E+02 | --- | DCNICOF (3,2) |
|      | Agricultural area 3 (cm**3/g)               | 2.300E+00 | 2.570E+02 | --- | DCNICOF (3,3) |
|      | Agricultural area 4 (cm**3/g)               | 2.300E+00 | 2.570E+02 | --- | DCNICOF (3,4) |
|      | Offsite Dwelling (cm**3/g)                  | 2.300E+00 | 2.570E+02 | --- | DCNSDCME (3) |
|      | Initial Leach rate (yr) Np-237              | 0.000E+00 | 0.000E+00 | 6.328E-02 | ALEACH (3) |

### DCIR

| DCIR | Distribution coefficients for progeny Th-229 | | | | |
|------|----------------------------------------------|------|--------|----------|
|      | Contaminated zone (cm**3/g)                  | 5.890E+03 | 6.000E+04 | --- | DCNITCH (5) |
|      | Unsaturated zone 1 (cm**3/g)                 | 5.890E+03 | 6.000E+04 | --- | DCSUCU (5,1) |
|      | Saturated zone (cm**3/g)                     | 5.890E+03 | 6.000E+04 | --- | DCNICS (5) |
|      | Sediment in surface water body (cm**3/g)     | 5.890E+03 | 6.000E+04 | --- | DCSWMSB (5) |
|      | Agricultural area 1 (cm**3/g)                | 5.890E+03 | 6.000E+04 | --- | DCNICOF (5,1) |
|      | Agricultural area 2 (cm**3/g)                | 5.890E+03 | 6.000E+04 | --- | DCNICOF (5,2) |
|      | Agricultural area 3 (cm**3/g)                | 5.890E+03 | 6.000E+04 | --- | DCNICOF (5,3) |
|      | Agricultural area 4 (cm**3/g)                | 5.890E+03 | 6.000E+04 | --- | DCNICOF (5,4) |
|      | Offsite Dwelling (cm**3/g)                   | 5.890E+03 | 6.000E+04 | --- | DCNSDCME (5) |
|      | Initial Leach rate (yr) Th-229               | 0.000E+00 | 0.000E+00 | 2.597E-05 | ALEACH (5) |

### DCIR

<p>| DCIR | Distribution coefficients for progeny U-233 | | | | |
|------|--------------------------------------------|------|--------|----------|
|      | Contaminated zone (cm<strong>3/g)                 | 3.500E+01 | 5.000E+01 | --- | DCNITCH (6) |
|      | Unsaturated zone 1 (cm</strong>3/g)                | 3.500E+01 | 5.000E+01 | --- | DCSUCU (6,1) |
|      | Saturated zone (cm<strong>3/g)                    | 3.500E+01 | 5.000E+01 | --- | DCNICS (6) |
|      | Sediment in surface water body (cm</strong>3/g)    | 1.000E+01 | 5.000E+01 | --- | DCSWMSB (6) |
|      | Agricultural area 1 (cm<strong>3/g)               | 3.500E+01 | 5.000E+01 | --- | DCNICOF (6,1) |
|      | Agricultural area 2 (cm</strong>3/g)               | 3.500E+01 | 5.000E+01 | --- | DCNICOF (6,2) |
|      | Agricultural area 3 (cm<strong>3/g)               | 3.500E+01 | 5.000E+01 | --- | DCNICOF (6,3) |
|      | Agricultural area 4 (cm</strong>3/g)               | 3.500E+01 | 5.000E+01 | --- | DCNICOF (6,4) |
|      | Offsite Dwelling (cm**3/g)                  | 3.500E+01 | 5.000E+01 | --- | DCNSDCME (6) |
|      | Initial Leach rate (yr) U-233               | 0.000E+00 | 0.000E+00 | 4.356E-03 | ALEACH (6) |</p>
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<th>Parameter</th>
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<th>RESRAD [Default]</th>
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### Site-Specific Parameter Summary (continued)

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### Additional Parameters

- **Appendix H52 – RESRAD-Offsite 3.1 Output for AREA 5.3 COLLECTOR AM**

- **Input, Default, and Computed Values**

- **Parameter Values**

- **Site-Specific Parameters**

- **Environmental Conditions**

- **Meteorological Data**

- **Dose Calculations**

- **Radiological Impact Assessment**

- **Risk Analysis**

- **Mitigation Strategies**

- **Safety Measures**

- **Emergency Response Plan**

- **Post-Emergency Management**
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Appendix H52 – RESRAD-Offsite 3.1 Output for AREA 5.3 COLLECTOR AM

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1 = Nuclide specific distribution coefficients in all subzones. Longitudinal dispersion in all but the subzone of transformation.
## Site-Specific Parameter Summary (continued)

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### Site-Specific Parameter Summary (continued)

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<td>RAD_SHAPE(66)</td>
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<tr>
<td>SEXT</td>
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<td>1.000E+01</td>
<td>RAD_SHAPE(67)</td>
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<tr>
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<td>Outer annular radius (m), ring 68:</td>
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<td>1.000E+01</td>
<td>RAD_SHAPE(68)</td>
</tr>
<tr>
<td>SEXT</td>
<td>Outer annular radius (m), ring 69:</td>
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</tr>
<tr>
<td>SEXT</td>
<td>Outer annular radius (m), ring 70:</td>
<td>1.000E+01</td>
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<tr>
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<td>Outer annular radius (m), ring 71:</td>
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<td>SEXT</td>
<td>Outer annular radius (m), ring 72:</td>
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<tr>
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<tr>
<td>SEXT</td>
<td>Ring 61</td>
<td>0.000E+00</td>
<td>0.000E+00</td>
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<td>0.000E+00</td>
<td>FRACA(64)</td>
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<td>Ring 65</td>
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<td>FRACA(65)</td>
</tr>
<tr>
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<td>0.000E+00</td>
<td>FRACA(66)</td>
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<tr>
<td>SEXT</td>
<td>Ring 67</td>
<td>0.000E+00</td>
<td>0.000E+00</td>
<td>FRACA(67)</td>
</tr>
<tr>
<td>SEXT</td>
<td>Ring 68</td>
<td>0.000E+00</td>
<td>0.000E+00</td>
<td>FRACA(68)</td>
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<tr>
<td>SEXT</td>
<td>Ring 69</td>
<td>0.000E+00</td>
<td>0.000E+00</td>
<td>FRACA(69)</td>
</tr>
<tr>
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<td>FRACA(70)</td>
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<td>SEXT</td>
<td>Ring 71</td>
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<td>0.000E+00</td>
<td>FRACA(71)</td>
</tr>
<tr>
<td>SEXT</td>
<td>Ring 72</td>
<td>0.000E+00</td>
<td>0.000E+00</td>
<td>FRACA(72)</td>
</tr>
<tr>
<td>OCCU</td>
<td>Fraction of time spent outdoors on contaminated site</td>
<td>0.000E+00</td>
<td>0.000E+00</td>
<td>FIND</td>
</tr>
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<td>OCCU</td>
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<td>0.000E+00</td>
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<tr>
<td>OCCU</td>
<td>Fraction of time spent indoors in Offsite Dwelling</td>
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<td>5.000E-01</td>
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<td>OCCU</td>
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<tr>
<td>OCCU</td>
<td>Fraction of time spent outdoors in agri. area 1</td>
<td>9.420E-02</td>
<td>1.000E-01</td>
<td>OCCUPANCY(1)</td>
</tr>
<tr>
<td>OCCU</td>
<td>Fraction of time spent outdoors in agri. area 2</td>
<td>6.280E-02</td>
<td>1.000E-01</td>
<td>OCCUPANCY(2)</td>
</tr>
<tr>
<td>Menu</td>
<td>Parameter</td>
<td>User</td>
<td>RESRAD</td>
<td>Parameter</td>
</tr>
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<td>------</td>
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<td>-----------</td>
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<td>OCCU</td>
<td>Fraction of time spent outdoors in agri. area 3</td>
<td>0.0000E+00</td>
<td>0.0001E-01</td>
<td>OCCUFANCY(3)</td>
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<td>OCCU</td>
<td>Fraction of time spent outdoors in agri. area 4</td>
<td>0.0000E+00</td>
<td>0.0001E-01</td>
<td>OCCUFANCY(4)</td>
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<tr>
<td>RADE</td>
<td>Diffusion coefficient for radon gas (m/sec):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RADE</td>
<td>in cover material</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFCV</td>
</tr>
<tr>
<td>RADE</td>
<td>in contaminated zone soil</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFCE</td>
</tr>
<tr>
<td>RADE</td>
<td>in fruit, grain and non-leafy vegetable field</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFDOS(1)</td>
</tr>
<tr>
<td>RADE</td>
<td>in leafy vegetable field</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFDOS(2)</td>
</tr>
<tr>
<td>RADE</td>
<td>in pature</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFDOS(3)</td>
</tr>
<tr>
<td>RADE</td>
<td>in livestock grain field</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFDOS(4)</td>
</tr>
<tr>
<td>RADE</td>
<td>in offsite dwelling site</td>
<td>not used</td>
<td>2.000E-06</td>
<td>DIFDOS(5)</td>
</tr>
<tr>
<td>RADE</td>
<td>in foundation material</td>
<td>not used</td>
<td>3.000E-07</td>
<td>DIFFL</td>
</tr>
<tr>
<td>RADE</td>
<td>Thickness of building foundation (m)</td>
<td>not used</td>
<td>1.500E-01</td>
<td>FLOOR1</td>
</tr>
<tr>
<td>RADE</td>
<td>Bulk density of building foundation (g/cm**3)</td>
<td>not used</td>
<td>2.400E+00</td>
<td>DENSFL</td>
</tr>
<tr>
<td>RADE</td>
<td>Total porosity of the building foundation</td>
<td>not used</td>
<td>1.000E-01</td>
<td>TPFL</td>
</tr>
<tr>
<td>RADE</td>
<td>Volumetric water content of the foundation</td>
<td>not used</td>
<td>3.000E-02</td>
<td>PV2OFL</td>
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<tr>
<td>RADE</td>
<td>Building depth below ground surface (m)</td>
<td>not used</td>
<td>-1.000E+00</td>
<td>DMFL</td>
</tr>
<tr>
<td>RADE</td>
<td>Radon vertical dimension of mixing (m)</td>
<td>not used</td>
<td>2.000E+00</td>
<td>HMIX</td>
</tr>
<tr>
<td>RADE</td>
<td>Height of the building (room) (m)</td>
<td>not used</td>
<td>2.500E+00</td>
<td>HM</td>
</tr>
<tr>
<td>RADE</td>
<td>Average building air exchange rate (1/hr)</td>
<td>not used</td>
<td>5.000E+00</td>
<td>BEXG</td>
</tr>
<tr>
<td>RADE</td>
<td>Building interior area factor</td>
<td>not used</td>
<td>0.000E+00</td>
<td>FAI</td>
</tr>
<tr>
<td>RADE</td>
<td>Emitting power of Rn-222 gas</td>
<td>not used</td>
<td>2.500E-01</td>
<td>BAMA(1)</td>
</tr>
<tr>
<td>RADE</td>
<td>Emitting power of Rn-222 gas</td>
<td>not used</td>
<td>1.500E-01</td>
<td>BAMA(2)</td>
</tr>
<tr>
<td>C14</td>
<td>C-14 evasion layer thickness in soil (m)</td>
<td>not used</td>
<td>3.000E-01</td>
<td>DMC</td>
</tr>
<tr>
<td>C14</td>
<td>Vertical dimension of mixing for vegetation (m)</td>
<td>not used</td>
<td>1.000E+00</td>
<td>HMIXV</td>
</tr>
<tr>
<td>C14</td>
<td>C-14 evasion flux rate from soil (1/sec)</td>
<td>not used</td>
<td>7.000E-07</td>
<td>C14EVS</td>
</tr>
<tr>
<td>C14</td>
<td>C-12 evasion flux rate from soil (1/sec)</td>
<td>not used</td>
<td>1.000E-10</td>
<td>C12EVS</td>
</tr>
<tr>
<td>C14</td>
<td>Fraction of vegetation carbon from air</td>
<td>not used</td>
<td>9.800E-01</td>
<td>CAIR</td>
</tr>
<tr>
<td>C14</td>
<td>Fraction of vegetation carbon from soil</td>
<td>not used</td>
<td>2.000E-02</td>
<td>CSOIL</td>
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<tr>
<td>C12</td>
<td>C-12 concentration in the atmosphere (g/m**3)</td>
<td>not used</td>
<td>1.800E-01</td>
<td>C12AIR</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in contaminated soil (g/g)</td>
<td>not used</td>
<td>3.000E-02</td>
<td>C12C</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in water (g/cm**3)</td>
<td>not used</td>
<td>2.000E-05</td>
<td>C12WTR</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in meat 1 (g/g)</td>
<td>not used</td>
<td>2.400E-01</td>
<td>C12MEAT_MILK(1)</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in milk (g/g)</td>
<td>not used</td>
<td>7.000E-02</td>
<td>C12MEAT_MILK(2)</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in vegetable 1 (g/g)</td>
<td>not used</td>
<td>4.000E-01</td>
<td>C12PLANT(1)</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in vegetable 2 (g/g)</td>
<td>not used</td>
<td>9.000E-02</td>
<td>C12PLANT(2)</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in livestock feed 1 (g/g)</td>
<td>not used</td>
<td>9.000E-02</td>
<td>C12PLANT(3)</td>
</tr>
<tr>
<td>C12</td>
<td>C-12 concentration in livestock feed 2 (g/g)</td>
<td>not used</td>
<td>4.000E-01</td>
<td>C12PLANT(4)</td>
</tr>
<tr>
<td>H3</td>
<td>Humidity in air (g/cm**3)</td>
<td>not used</td>
<td>8.000E+00</td>
<td>HUMID</td>
</tr>
<tr>
<td>H3</td>
<td>Mass fraction of water in meat 1 (g/g)</td>
<td>not used</td>
<td>6.000E-01</td>
<td>H2OMEAT_MILK(1)</td>
</tr>
<tr>
<td>H3</td>
<td>Mass fraction of water in milk (g/g)</td>
<td>not used</td>
<td>8.800E-01</td>
<td>H2OMEAT_MILK(2)</td>
</tr>
<tr>
<td>H3</td>
<td>Mass fraction of water in vegetable 1 (g/g)</td>
<td>not used</td>
<td>8.000E-01</td>
<td>H2OPLANT(1)</td>
</tr>
<tr>
<td>H3</td>
<td>Mass fraction of water in vegetable 2 (g/g)</td>
<td>not used</td>
<td>8.000E-01</td>
<td>H2OPLANT(2)</td>
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<tr>
<td>H3</td>
<td>Mass fraction of water in livestock feed 1 (g/g)</td>
<td>not used</td>
<td>8.000E-01</td>
<td>H2OPLANT(3)</td>
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</table>
Site-Specific Parameter Summary (continued)

<table>
<thead>
<tr>
<th>Menu</th>
<th>Parameter</th>
<th>User</th>
<th>Default</th>
<th>RESRAD</th>
<th>Parameter</th>
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<tbody>
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<td></td>
<td>Input</td>
<td></td>
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<td>Name</td>
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<td>not used</td>
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Summary of Pathway Selections

<table>
<thead>
<tr>
<th>Pathway</th>
<th>User Selection</th>
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<tbody>
<tr>
<td>1 -- external gamma</td>
<td>active</td>
</tr>
<tr>
<td>2 -- inhalation (w/o radon)</td>
<td>active</td>
</tr>
<tr>
<td>3 -- plant ingestion</td>
<td>active</td>
</tr>
<tr>
<td>4 -- meat ingestion</td>
<td>active</td>
</tr>
<tr>
<td>5 -- milk ingestion</td>
<td>active</td>
</tr>
<tr>
<td>6 -- aquatic foods</td>
<td>active</td>
</tr>
<tr>
<td>7 -- drinking water</td>
<td>active</td>
</tr>
<tr>
<td>8 -- soil ingestion</td>
<td>active</td>
</tr>
<tr>
<td>9 -- radon</td>
<td>suppressed</td>
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</table>
Contaminated Zone Dimensions

<table>
<thead>
<tr>
<th>Area:</th>
<th>575.00 square meters</th>
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<tbody>
<tr>
<td>Thickness:</td>
<td>1.00 meters</td>
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<tr>
<td>Cover Depth:</td>
<td>0.00 meters</td>
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Initial Soil Concentrations, pCi/g

<table>
<thead>
<tr>
<th>Isotope</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Am-241</td>
<td>7.53E-01</td>
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<tr>
<td>Cs-137</td>
<td>6.80E-02</td>
</tr>
<tr>
<td>Sr-90</td>
<td>2.22E-01</td>
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</table>

Total Dose TDose(t), mrem/yr

<table>
<thead>
<tr>
<th>t (years)</th>
<th>TDose(t)</th>
<th>M(t)</th>
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</thead>
<tbody>
<tr>
<td>0.00E+00</td>
<td>3.43E-02</td>
<td>1.37E-03</td>
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<tr>
<td>1.00E+00</td>
<td>6.00E+00</td>
<td>2.06E+02</td>
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<tr>
<td>2.00E+01</td>
<td>4.20E+01</td>
<td>1.59E+03</td>
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</table>

Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Total Mixture Sum $M(t) = \text{Fraction of Basic Dose Limit Received at Time } (t)$

Maximum TDose(t): 3.43E-02 mrem/yr at t = 0 years
**Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 0 years**

From releases to ground water and to surface water

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
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<tbody>
<tr>
<td></td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
</tr>
<tr>
<td>Am-241</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Cs-137</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Sr-90</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
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<tr>
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</table>

**Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 0 years**

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

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
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</thead>
<tbody>
<tr>
<td></td>
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<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
</tr>
<tr>
<td>Am-241</td>
<td>3.70E-03</td>
<td>6.52E-04</td>
<td>2.06E-04</td>
<td>1.91E-06</td>
<td>0.00E+00</td>
<td>3.62E-03</td>
<td>8.18E-03</td>
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<tr>
<td>Cs-137</td>
<td>2.48E-02</td>
<td>4.18E-09</td>
<td>1.01E-05</td>
<td>1.65E-06</td>
<td>0.00E+00</td>
<td>4.44E-06</td>
<td>2.48E-02</td>
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<tr>
<td>Sr-90</td>
<td>5.78E-04</td>
<td>5.52E-07</td>
<td>7.46E-04</td>
<td>8.62E-06</td>
<td>0.00E+00</td>
<td>4.37E-05</td>
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<tr>
<td>Total</td>
<td>2.91E-02</td>
<td>6.53E-04</td>
<td>9.62E-04</td>
<td>1.22E-05</td>
<td>0.00E+00</td>
<td>3.67E-03</td>
<td>3.44E-02</td>
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</table>

*Sum of dose from all releases and from primary contamination.
Total Dose Contributions \( TDose(i,p,t) \) for Individual Radionuclides \((i)\) and Pathways \((p)\) in mrem/yr and as a Percentage of Total Dose at \( t = 1 \) years.

From releases to ground water and to surface water:

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
</tr>
<tr>
<td>Am-241</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Cs-137</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Sr-90</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
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<tr>
<td>Total</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
</tbody>
</table>

Total Dose Contributions \( TDose(i,p,t) \) for Individual Radionuclides \((i)\) and Pathways \((p)\) in mrem/yr and as a Percentage of Total Dose at \( t = 1 \) years.

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

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
<td>Dose %</td>
</tr>
<tr>
<td>Am-241</td>
<td>3.70E-03</td>
<td>6.51E-04</td>
<td>2.06E-04</td>
<td>2.06E-04</td>
<td>1.90E-06</td>
<td>0.00E+00</td>
<td>3.61E-03</td>
<td>11.91E-03</td>
</tr>
<tr>
<td>Cs-137</td>
<td>2.42E-02</td>
<td>4.09E-09</td>
<td>9.88E-09</td>
<td>9.88E-09</td>
<td>1.61E-06</td>
<td>0.00E+00</td>
<td>4.34E-06</td>
<td>0.24E-02</td>
</tr>
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<td>Sr-90</td>
<td>5.48E-04</td>
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<td>7.07E-04</td>
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<tr>
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<td>3.66E-03</td>
<td>11.37E-02</td>
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</tbody>
</table>

*Sum of dose from all releases and from primary contamination.
## Appendix H52 – RESRAD-Offsite 3.1 Output for AREA 5.3 COLLECTOR AM

### Total Dose Contributions TDose(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 3 years

#### From releases to ground water and to surface water

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
</tr>
<tr>
<td>Am-241</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
</tr>
<tr>
<td>Cs-137</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
</tr>
<tr>
<td>Sr-90</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
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<td>0.00E+00</td>
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<tr>
<td><strong>Total</strong></td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
</tr>
</tbody>
</table>

### Total Dose Contributions TDose(i,p,t) for Individual Radionuclides (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 3 years

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

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
</tr>
<tr>
<td>Am-241</td>
<td>3.69E-03</td>
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<td>6.49E-04</td>
<td>2</td>
<td>0.00E+00</td>
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<td>2.05E-04</td>
<td>1</td>
</tr>
<tr>
<td>Cs-137</td>
<td>2.31E-02</td>
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<td>3.90E-09</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>9.42E-06</td>
<td>0</td>
</tr>
<tr>
<td>Sr-90</td>
<td>4.92E-04</td>
<td>2</td>
<td>4.70E-07</td>
<td>0</td>
<td>0.00E+00</td>
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<td>6.35E-04</td>
<td>2</td>
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<tr>
<td><strong>Total</strong></td>
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<td>8.50E-04</td>
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</table>

*Sum of dose from all releases and from primary contamination.
## Total Dose Contributions TDose(i,p,t) for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 6 years

### From releases to ground water and to surface water

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
</tr>
<tr>
<td>Am-241</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Cs-137</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Sr-90</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
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</tr>
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</table>

### Total Dose Contributions TDose(i,p,t) for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 6 years (Directly from primary contamination and from release to atmosphere (Inhalation excludes radon))

<table>
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<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
<td>Dose</td>
<td>%</td>
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<td>0.00E+00</td>
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<td>2.04E-04</td>
<td>1</td>
</tr>
<tr>
<td>Cs-137</td>
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<td>3.63E-09</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>8.78E-06</td>
<td>0</td>
</tr>
<tr>
<td>Sr-90</td>
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<td>4.00E-07</td>
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<td>0.00E+00</td>
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<td>7.53E-04</td>
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</tbody>
</table>

*Sum of dose from all releases and from primary contamination.
### Total Dose Contributions $TDOSER(i,p,t)$ for Individual Radionuclides ($i$) and Pathways ($p$)

#### From releases to ground water and to surface water

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
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<tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Am-241</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
<td>Cs-137</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
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<tr>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
<tr>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
<td>0.00E+00</td>
</tr>
</tbody>
</table>

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

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

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dose %</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Am-241</td>
<td>3.63E-03</td>
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<td>2.02E-04</td>
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<td>0.00E+00</td>
<td>3.55E-03</td>
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<td>0.00E+00</td>
<td>0.00E+00</td>
<td>3.34E-06</td>
</tr>
<tr>
<td>Sr-90</td>
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<td>3.92E-04</td>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
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</table>

*Sum of dose from all releases and from primary contamination.
Appendix H52 – RESRAD-Offsite 3.1 Output for AREA 5.3 COLLECTOR AM

Resrad-Offsite, Version 3.1  Tm Limit = 30 days  10/27/2016  10:04  Page 42

Title: RESRAD-Offsite Default Parameters
File: AREA 5.3 COLLECTOR AM.ROF

Total Dose Contributions TDose/i,p,t for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 30 years
From releases to ground water and to surface water

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground Dose</th>
<th>Ground %</th>
<th>Fish Dose</th>
<th>Fish %</th>
<th>Radon Dose</th>
<th>Radon %</th>
<th>Plant Dose</th>
<th>Plant %</th>
<th>Meat Dose</th>
<th>Meat %</th>
<th>Milk Dose</th>
<th>Milk %</th>
<th>Soil Dose</th>
<th>Soil %</th>
<th>Water Dose</th>
<th>Water %</th>
</tr>
</thead>
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<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
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<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
</tr>
<tr>
<td>Cs-137</td>
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<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
</tr>
<tr>
<td>Sr-90</td>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
<td>0</td>
<td>0.00E+00</td>
<td>0</td>
</tr>
</tbody>
</table>

Total Dose Contributions TDose/i,p,t for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 30 years
Directly from primary contamination and from release to atmosphere (Inhalation excludes radon)

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground Dose</th>
<th>Ground %</th>
<th>Inhalation Dose</th>
<th>Inhalation %</th>
<th>Radon Dose</th>
<th>Radon %</th>
<th>Plant Dose</th>
<th>Plant %</th>
<th>Meat Dose</th>
<th>Meat %</th>
<th>Milk Dose</th>
<th>Milk %</th>
<th>Soil Dose</th>
<th>Soil %</th>
<th>All Pathways*</th>
<th>All Pathways %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Am-241</td>
<td>3.52E-03</td>
<td>17</td>
<td>6.20E-04</td>
<td>3</td>
<td>1.96E-04</td>
<td>1</td>
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<td>3.44E-03</td>
<td>17</td>
<td>7.78E-03</td>
<td>38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cs-137</td>
<td>1.22E-02</td>
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<td>2.06E-09</td>
<td>0</td>
<td>4.97E-06</td>
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<td>8.12E-07</td>
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<td>0.00E+00</td>
<td>0</td>
<td>2.18E-06</td>
<td>0</td>
<td>1.22E-02</td>
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*Sum of dose from all releases and from primary contamination.
Total Dose Contributions $TDOSE(i,p,t)$ for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 75 years

From releases to ground water and to surface water

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
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<td>0.00E+00</td>
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<td>0.00E+00</td>
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Total Dose Contributions $TDOSE(i,p,t)$ for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 75 years

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

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
</tr>
</thead>
<tbody>
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<td>Dose %</td>
<td>Dose %</td>
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</tr>
<tr>
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<td>0.00E+00</td>
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<tr>
<td>Cs-137</td>
<td>4.21E-03</td>
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<td>0.00E+00</td>
<td>1.72E-06</td>
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</table>

*Sum of dose from all releases and from primary contamination.
### Total Dose Contributions $T\text{DOSE}(i,p,t)$ for Individual Radionuclides (i) and Pathways (p)

in mrem/yr and as a Percentage of Total Dose at $t = 175$ years

From releases to ground water and to surface water

<table>
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<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
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<td>0.00E+00</td>
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<tr>
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### Total Dose Contributions $T\text{DOSE}(i,p,t)$ for Individual Radionuclides (i) and Pathways (p)

in mrem/yr and as a Percentage of Total Dose at $t = 175$ years

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

<table>
<thead>
<tr>
<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
</tr>
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<tbody>
<tr>
<td></td>
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<tr>
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<td>6.49E-03</td>
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</table>

*Sum of dose from all releases and from primary contamination.
Total Dose Contributions TDOS(E,i,p,t) for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 420 years

From releases to ground water and to surface water

<table>
<thead>
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<th>Radio- Nuclide</th>
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<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>Water</th>
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Total Dose Contributions TDOS(E,i,p,t) for Individual Radionuclides (i) and Pathways (p) in mrem/yr and as a Percentage of Total Dose at t = 420 years

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

<table>
<thead>
<tr>
<th>Radio- Nuclide</th>
<th>Ground</th>
<th>Inhalation</th>
<th>Radon</th>
<th>Plant</th>
<th>Meat</th>
<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
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<td>8.00E+00</td>
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</table>

*Sum of dose from all releases and from primary contamination.
### Total Dose Contributions TDose(i,p,t) for Individual Radioisotopes (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 970 years

From releases to ground water and to surface water

<table>
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<th>Radio-Nuclide</th>
<th>Ground</th>
<th>Fish</th>
<th>Radon</th>
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<th>Meat</th>
<th>Milk</th>
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### Total Dose Contributions TDose(i,p,t) for Individual Radioisotopes (i) and Pathways (p)
in mrem/yr and as a Percentage of Total Dose at t = 970 years

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

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<thead>
<tr>
<th>Radio-Nuclide</th>
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<th>Milk</th>
<th>Soil</th>
<th>All Pathways*</th>
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</thead>
<tbody>
<tr>
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<td>Dose %</td>
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</tr>
<tr>
<td>Am-241</td>
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<td>4.02E-05</td>
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<td>1.60E-03</td>
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*Sum of dose from all releases and from primary contamination.
### Dose/Source Ratios Summed Over All Pathways

<table>
<thead>
<tr>
<th>Parent</th>
<th>Product</th>
<th>Thread</th>
<th>DSR((j,t))(mm(\text{rem/yr}))/(pCi/g)</th>
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<td>(1)</td>
<td>(1)</td>
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<td>(\text{Am-241})</td>
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</tr>
<tr>
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<td>(\text{Hg-237+D})</td>
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</tr>
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<td>(\text{U-233})</td>
<td>(1.000E+00)</td>
<td>2.263E-16 1.416E-15 6.996E-15 2.232E-14 7.239E-14 3.046E-13 9.500E-13 1.901E-12 2.400E-12 1.326E-12</td>
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<td>(\text{Th-229+D})</td>
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<tr>
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</tbody>
</table>

The DSR includes contributions from associated (half-life ≤ 30 days) daughters.

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

<table>
<thead>
<tr>
<th>Nuclide</th>
<th>(G(i,t)) in pCi/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\text{Am-241})</td>
<td>2.500E+01 mrem/yr</td>
</tr>
<tr>
<td>(\text{Cs-137})</td>
<td>6.853E+00</td>
</tr>
<tr>
<td>(\text{Sr-90})</td>
<td>4.030E+03</td>
</tr>
</tbody>
</table>

*At specific activity limit

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

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

\(\text{at t}_{\text{min}}\) = time of minimum single radionuclide soil guideline

\(\text{and at t}_{\text{max}}\) = time of maximum total dose = 0 years

<table>
<thead>
<tr>
<th>Nuclide</th>
<th>Initial (G(i,0)) (pCi/g)</th>
<th>(t_{\text{min}}) (years)</th>
<th>DSR((i,t)) in mrem/yr/pCi g</th>
<th>(G(i, t_{\text{min}})) (pCi/g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\text{Am-241})</td>
<td>7.530E-01</td>
<td>0</td>
<td>1.087E-02</td>
<td>2.300E-03</td>
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<tr>
<td>(\text{Cs-137})</td>
<td>6.800E-02</td>
<td>0</td>
<td>3.648E-01</td>
<td>6.853E-01</td>
</tr>
<tr>
<td>(\text{Sr-90})</td>
<td>2.220E-01</td>
<td>0</td>
<td>6.204E-03</td>
<td>4.030E-03</td>
</tr>
<tr>
<td>Nuclide Parent</td>
<td>THF(i)</td>
<td>Dose(j,t), mrem/yr</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------</td>
<td>--------</td>
<td>--------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(j)</td>
<td>(i)</td>
<td>t= 0.000E+00 1.000E+00 3.000E+00 6.000E+00 1.200E+01 3.000E+01 7.500E+01 1.750E+02 4.200E+02 9.700E+02</td>
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<td></td>
</tr>
<tr>
<td>Am-241</td>
<td>Am-241</td>
<td>1.000E+00</td>
<td>8.184E-03 8.170E-03 8.143E-03 8.102E-03 8.020E-03 7.781E-03 7.213E-03 6.095E-03 4.034E-03 1.597E-03</td>
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</tr>
<tr>
<td>Cs-137</td>
<td>Cs-137</td>
<td>1.000E+00</td>
<td>2.481E-02 2.423E-02 2.311E-02 2.153E-02 1.868E-02 1.220E-02 4.209E-03 3.954E-04 1.204E-04 2.699E-12</td>
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<tr>
<td>Sr-90</td>
<td>Sr-90</td>
<td>1.000E+00</td>
<td>1.377E-03 1.305E-03 1.173E-03 9.981E-04 7.232E-04 2.751E-04 2.455E-05 1.143E-07 2.211E-13 3.301E-26</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Nuclide Parent</th>
<th>THF(i)</th>
<th>S(j,t), pCi/g</th>
</tr>
</thead>
<tbody>
<tr>
<td>(j)</td>
<td>(i)</td>
<td>t= 0.000E+00 1.000E+00 3.000E+00 6.000E+00 1.200E+01 3.000E+01 7.500E+01 1.750E+02 4.200E+02 9.700E+02</td>
</tr>
<tr>
<td>Np-237</td>
<td>Am-241</td>
<td>1.000E+00</td>
</tr>
<tr>
<td>U-233</td>
<td>Am-241</td>
<td>1.000E+00</td>
</tr>
<tr>
<td>Th-229</td>
<td>Am-241</td>
<td>1.000E+00</td>
</tr>
<tr>
<td>Cs-137</td>
<td>Cs-137</td>
<td>1.000E+00</td>
</tr>
<tr>
<td>Sr-90</td>
<td>Sr-90</td>
<td>1.000E+00</td>
</tr>
</tbody>
</table>

THF(i) is the thread fraction of the parent nuclide.
Appendix HS2 – RESRAD-Offsite 3.1 Output for AREA 5.3 COLLECTOR AM

RESRAD-OFFSITE, Version 3.1    T% Limit = 30 days    10/27/2016  10:04  Page 49
Run Time Information
ResoCalc.EXE execution began at 10:04 on 10/27/2016
ResoCalc.EXE execution ended at 10:04 on 10/27/2016
ResoCalc.EXE execution time 2.220 seconds