



{In Archive} DRAFT for Review: Radiation Outdoor Surfaces PRG (SPRG) risk calculator

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to:

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Stuart-

Here are a few additional comments on the 2-D PRGs.

1. User's Guide, Section 4, Graphical Representations of CSM. For the 2-D and 3-D Direct External Exposure to Settled Dust on Finite Slabs representations use the term "fixed" (the term is currently only used in the discussion of the dissipation rate constant in Section 4.3.8) to better illustrate why resuspension pathways are not active for these calculations.

2. User's Guide, Section 4.3.11, Area Correction Factor. The default ACFs described in the hyperlinked page may not match the default ACFs used in the calculation. When selecting the default SPRG for Cs-137, an ACF of 0.927 is listed in the output page. When selecting the default SPRG for Cs-137+D, an ACF of 0.877 is listed in the output. Table 5-1 of the hyperlinked ACF page gives the recommended ACF for a 2,000 sq meter slab as 0.90 while Table 5-2 gives the radionuclide specific ACF for Cs-137 as 0.92. It is not clear why Cs-137 and Cs-137+D have different ACFs when they both appear to include the Ba-137m short-lived decay progeny. (When following the radionuclide hyperlink from the output page, the same ICRP 38 decay chain is provided for both.) Check to make sure that the calculator is using the correct ACF for Cs-137 and Cs-137+D (do we need both?) as this will be an important radionuclide for the calculator.

3. User's Guide, Table 1. Correct the entry for VKT which has an extra "0".

Brian

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