

Building Preliminary Remediation Goals (BPRG) and Building Dose Compliance Concentrations (BDCC) Calculators

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BPRG Calculator

Calculates risk-based building preliminary remediation goals (BPRGs) for use in radiation risk assessments inside radioactively contaminated buildings. Useful when ARARs (Applicable or Relevant and Appropriate Requirements – regulations set by governments) are not available. Calculates cleanup concentrations based on a target cancer risk of 1x 10⁻⁶. Not cleanup standards – used for site screening and initial cleanup goals. Applicable for residential and commercial/industrial indoor worker exposure scenarios.

BDCC Calculator

Calculates building dose compliance concentrations (BDCCs) for use in radioactively contaminated buildings. Superfund is NOT a dose-based program. DCCs are useful for demonstrating compliance to ARARs.

Using the Calculators

•Select scenario: 8 exposure scenarios to right. Select PRG/DCC type: use default parameters or site-specific. Defaults useful for initial site assessments. If data is collected, may use sitespecific data to set more accurate cleanup goals.

•Select units: units of activity in pCi or Bq. •Select isotopes of interest: Select the radionuclides and/or radionuclide decay chains present at site.

•+D includes activity of daughter nuclides (100 yr).

•+E includes activity of daughter nuclides (1000 yr).







BPRG: http://epa-bprg.ornl.gov **BDCC**: http://epa-bdcc.ornl.gov

