



Surface Dose Compliance Concentration (SDCC) Calculator



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SDCC: <http://epa-sdcc.ornl.gov>

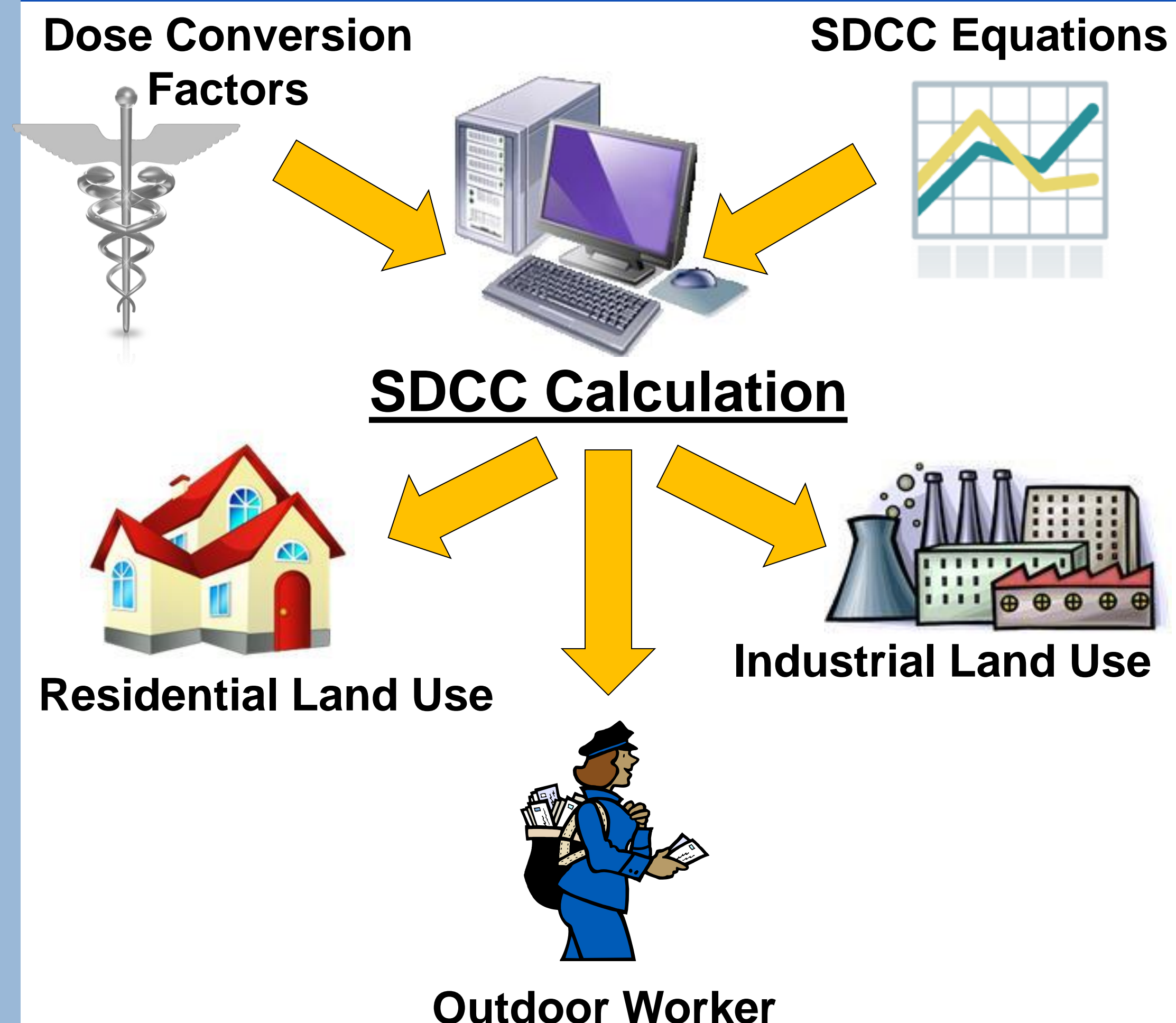
What is SDCC?

- SDCC stands for **surface dose compliance concentrations**.
- SDCCs are cleanup levels that correspond to a specific dose of radiation for radioactive contamination on hard surfaces.
- Superfund is **NOT** a dose-based program.
- Used for residential, indoor worker, and outdoor worker exposure.

SDCC Calculator

- The **SDCC Calculator** is a tool that allows EPA to calculate radiation cleanup levels that correspond to a specific **dose** from contaminated, hard, outside surfaces (streets, sides of buildings.) The calculator uses **dose conversion factors (DCF)** in calculating radiation dose.
 - **Dose** is the amount of radiation absorbed by a person's body.
 - **DCFs** use concentration of a radionuclide in soil, air, water, and food to determine the dose of radiation a person at a contaminated site is exposed to. DCFs also take into account the type of exposure (inhalation, ingestion, or external) in determining dose.
- Superfund takes into account cancer risk, not radiation dose, in deciding cleanup levels. The DCC calculator is useful to show compliance with previously existing regulation of clean-up levels that may be in place.
- Below are some exposure pathways considered by the SDCC Calculator.

SDCC Calculator



2D Exposure to Fixed Settled Dust on Finite Slabs (Outdoor Worker)



Settled Dust (Resident)



3D Exposure to Fixed Settled Dust on Outdoor Surfaces (Indoor Worker)



3D Exposure to Fixed Contaminated Building Materials (Outdoor Worker)



2D Exposure to Fixed Contaminated Finite Slabs (Resident)

