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Title: Manual for implementing residual radioactive material guidelines using RESRAD, Version 5.0.

Author: Yu, C.; Zielen, A.J.; Cheng, J.J.

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Abstract: This manual presents information for implementing US Department of Energy (DOE) guidelines for residual radioactive material. It describes the analysis and models used to derive site-specific guidelines for allowable residual concentrations of radionuclides in soil and the design and use of the RESRAD computer code for calculating doses, risks, and guideline values. It also describes procedures for implementing DOE policy for reducing residual radioactivity to levels that are as low as reasonably achievable. Two new pathways, radon inhalation and soil ingestion, have been added to RESRAD. Twenty-seven new radionuclides have also been added, and the cutoff half-life for associated radionuclides has been reduced to six months. Other major improvements to the RESRAD code include the ability to run sensitivity analyses, the addition of graphical output, user-specified dose factors, updated databases, an improved groundwater transport model, optional input of a groundwater concentration and a solubility constant, special models for tritium and carbon-14, calculation of cancer incidence risk, and the use of a mouse with menus.

Subjects: NUCLEAR FUELS; SOILS/radiochemical analysis; RADIATION DOSES/r codes; US DOE/radioactive waste management; SOILS; RADIOACTIVE WASTES; COMPUTERS; MATHEMATICAL MODELS

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