

ABSTRACT for the Scenario Workshop Dresden in Nov. 2010

Building materials: Dose assessment with different models

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Rough estimations of the external dose resulting from building materials can easily be made by using the index formula of the EU-recommendation Radiation Protection 112. Since it is based, among other things, on a conservative model room it is suitable as a good screening tool, but not as a basis for decisions on authorisation. In a first step for a more elaborate calculation, adaptations of the underlying model regarding material specific characteristics (density, depth) could be made to get more realistic results.

The background of the RP 112, the limits and the starting points for more sophisticated calculations will be discussed and, in addition, an attempt for considering the radon contribution of building materials is given.