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PAPER TITLE Spectral Distributions of Ambient Dose Equivalent for Environmental Radiation Fields

AUTHOR(S) NAME(S) Pernička, F.

SUBMITTING AUTHOR

LAST NAME Pernička FIRST NAME František TITLE Dr.

AFFILIATION Nuclear Physics Institute TEL ++ 422 66311783

STREET Na Truhlářce 39/64 FAX ++ 422 823344

CODE 180 86 CITY Prague COUNTRY Czech Republic

PRESENTING AUTHOR (IF DIFFERENT)

MAJOR SCIENTIFIC TOPIC NUMBER 3.2 ..... (see page 7)

ABSTRACT (See instructions overleaf)

Spectral distributions of an ambient dose equivalent for different environmental radiation fields were modelled using a Monte Carlo method. The radiation fields considered include both the natural as well as the man-made fields. Further, conversion factors from the air kerma into the ambient dose equivalent, H^*/K_a, were calculated for the fields. These were compared with experimental values of conversion factors obtained from *in-situ* gamma spectrometry. Variations of H^*/K_a and their influence on dosimetry of the environmental radiation fields will be discussed.