

# DISTRIBUTION OF $^{137}\text{Cs}$ , $^{90}\text{Sr}$ , $^{239+240}\text{Pu}$ , $^{241}\text{Am}$ AND $^{230,232}\text{Th}$ ON THE FRACTIONS OF NATURAL ORGANIC SPECIES SOILS OF ChNPP ALIENATION ZONE

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The experimental data determination of distribution  $^{137}\text{Cs}$ ,  $^{90}\text{Sr}$ ,  $^{239+240}\text{Pu}$ ,  $^{241}\text{Am}$  “Chernobyl” releases and  $^{230,232}\text{Th}$  on the fraction of humic and fulvic acids sandy- podsollic, meadow and peaty soils taken in the exclusive zone ChNPP are presents. Soils organic matter was isolated by conventional alkali extraction (Turin’s method). It was shown that, with depending of soils types 15 – 45 %  $^{241}\text{Am}$  associate with fulvic acids. In all investigated types of soils 30 – 40 %  $^{239+240}\text{Pu}$  connects with humic acids, as strong complexes. The distribution of environmental  $^{230,232}\text{Th}$  and artificial  $^{239+240}\text{Pu}$  on the fraction natural organic species is the same.